# U.S. Department of Energy Compliance Strategy for E.O. 13149



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# **Contents**

List	of Tables	ii
Exec	cutive Summary	1
l.	Data Collection and Analysis  I-1 DOE Baseline Petroleum Fuel Use  I-2 DOE Fleet Characteristics  I-3 Basic Assumptions  I-4 Compliance Approach Analysis  (1) Biodiesel Blend Use  (2) AFV Acquisition and Alternative Fuel Use  (3) Acquisition of Higher Fuel Economy Vehicles  (4) Fleet Efficiency Improvements	3 6 6 7 7
II.	AFV Training Program	13
III.	Fleet Management Issues	14
IV.	Results of DOE Strategy	14
V.	Strategy Compliance Evaluation	15
VI.	Recognition and Awards	15
Attac	BPA-Willamette	18202122232425262728293132
	Savannah River Site	

# **List of Tables**

1.	Planned FY 2005 Petroleum Reduction by Strategic Approach	2
	Data Requirements	
	DOE Fleetwide Petroleum Fuel Usage for FY 1999	
	FY 1999 Fuel Use Breakdown for DOE	
	Selected Fleet Locations for DOE-Wide Strategy	
	Summary of B20 Use in DOE Strategy	
	Summary of AFV Fuel Savings	
	Projected AFV Refueling Infrastructure Costs	
9.	Summary of Higher Fuel Economy Savings	11
	The Acquisition of Higher Fuel Economy Vehicles at	
	Brookhaven National Laboratory	12
11	.Summary of Fleet Efficiency Fuel Savings	
	2.DOE Compliance Strategy Results	

# U.S. Department of Energy Compliance Strategy for E.O. 13149

# **Executive Summary**

Executive Order (E.O.) 13149, Greening the Government through Federal Fleet and Transportation Efficiency, was signed by the President on April 21, 2000. The order requires Federal agencies to reduce their vehicle petroleum consumption by 20 percent, relative to their FY 1999 baseline, through the use of alternative fuel in alternative fuel vehicles and improvements in fleet fuel efficiency.

One of the requirements of E.O. 13149 is for each agency to develop a comprehensive strategy that illustrates how it will achieve the petroleum reduction goals. For the Department of Energy, the Office of Energy Efficiency and Renewable Energy was given lead responsibility for developing this compliance strategy. The office's efforts were coordinated with individual Department of Energy fleet managers to gain operational input and commitment to the strategy, which were viewed as key to its future success. The strategy also responds to other Departmental program initiatives having related petroleum reduction goals, such as the Energy Policy Act and the Secretary's Pollution Prevention and Energy Efficiency Leadership Goals. Through discussions with and input from the key managers of these programs, the strategy ensures fleet compliance with the goals of the Energy Policy Act of 1992 and the Secretary's Pollution Prevention and Energy Efficiency Leadership Goals, while at the same time meeting the requirements and objectives of the Executive Order.

The specific elements of the strategy include the use of biodiesel in vehicles with diesel engines, the use of other alternative fuels, the acquisition of light-duty vehicles with higher fuel economy, and improvements in the overall efficiency of fleet vehicle operations. The approach taken in developing this strategy is consistent with the general guidance of *The Federal Fleet Strategy Development Supplement*<sup>1</sup>. It entailed a review of the Department of Energy's fleet composition and characteristics, identification of favorable individual fleet locations, and a "roll-up" of each individual location's strategy to form an overall agency-wide strategy that meets the goals of E.O. 13149.

Table 1 summarizes the estimated petroleum use reduction that will be achieved by each element of the Department's compliance strategy. The quantities in the table are given in gasoline gallon equivalents. Specific details on how each of these reductions will be achieved are provided in Section I-4 of this strategy. As shown in Table 1, in fiscal year 2005 it is expected that the implementation of the strategy will achieve as much as 34 percent reduction in the agency's on-road vehicle petroleum consumption by end of fiscal year 2005, which exceeds the 20 percent reduction goal of E.O. 13149.

1

<sup>&</sup>lt;sup>1</sup> U.S. Department of Energy, Office of Technology Utilization, *The Federal Fleet Strategy Development Supplement*, September 2000.

Table 1. Planned FY 2005 Petroleum Reduction by Strategic Approach

Reduction by Strategic Approach			Planned Total P	etroleum Reduction in FY 2005
Use of Biodiesel (GGE)*	Use of Alternative Fuels (GGE)	Fuel Economy/ Fleet Efficiency Improvements (GGE)	Total GGE	% Reduction
473,745	1,222,511	276,977	1,973,233	33.8

<sup>\*</sup> GGE = Gasoline Gallons Equivalent

Fleet reporting, and tracking of compliance with the Department's strategy and the E.O. 13149 in general, will be performed using the new Web-based database system, the Federal Automotive Statistical Tool. The Department, in cooperation with the General Services Administration's Office of Government-Wide Policy, developed the system based on the Vehicle Information Data System reporting mechanism that the Department's fleets utilized in fiscal year 1999 to report their fuel consumption and alternative fuel vehicle activities. The new system is user-friendly and provides agency-wide roll-up features for effective management of fleet activities under E.O. 13149 and other programs. The system has been approved by the Field Management Council, and does not impose any new reporting requirements on Departmental fleets. Instead, it satisfies three Federal reporting requirements: E.O. 13149, the Energy Policy Act of 1992, and the General Services Administration's SF-82 Agency Report of Motor Vehicle Data.

The Department has also assessed the cost impacts of the agency's strategy on individual fleets. To offset the higher price of some types of alternative fuel vehicles compared to conventional vehicles, the Department of Energy established a "memorandum of understanding" with the General Services Administration that states that fleets that lease alternative fuel vehicles through the General Services Administration will pay the same monthly charge for alternative fuel vehicles as for leasing gasoline vehicles. The additional costs are recovered through a small monthly surcharge on all vehicles leased from the General Services Administration throughout the entire Department of Energy fleet. This means that all Departmental fleets that lease vehicles from the General Services Administration will share in the additional costs of alternative fuel vehicle acquisition rather than just the fleets using the vehicles. For vehicles leased from the General Services Administration, the monthly mileage fees cover the fuel costs and are the same regardless of vehicle fuel type. The Department is also working on securing funding (approximately \$1.9 million) for covering the additional costs of installing on-site alternative fuel refueling stations at a number of the Department's fleet locations.

The Department of Energy's strategy is focused yet flexible, and has a high probability of success in achieving the required petroleum reduction goals. It is consistent with and supports the requirements of other Departmental programs aimed at achieving petroleum reductions, incorporates a Web-based tracking system for fleets, and addresses the cost impacts for individual fleets. It provides a compliance plan that is consistent with the needs of the agency's fleets and the requirements of individual fleet locations, while ensuring the Department provides

leadership among Federal agencies in reducing vehicle petroleum fuel consumption.

# I. Data Collection and Analysis

To develop a strategy for the Department of Energy (DOE) to comply with the petroleum use reduction goal of Executive Order (E.O.) 13149, the agency first conducted an extensive data collection effort. Table 2 shows the types of data collected for each of the agency's fleets and the sources used. The data collected was then used to develop the baseline petroleum consumption, the baseline acquisitions' average fuel economy, and a realistic strategy for achieving the goals of E.O. 13149.

**Table 2. Data Requirements** 

Data Requirement	Source
FY 1999 Petroleum Fuel Use (gallons)	SF-82 report
- Total, non-road, and exempt vehicle fuel use	FEMP report
Fleet Composition and Characteristics	SF-82 report
- FY 1999 inventory and new acquisitions	FEMP report
(conventional and alternative fuel vehicles;	GSA Automotive Division
light-, medium-, and heavy-duty; gasoline and	GSA Fleet Division
diesel)	GSA Keeling Report,
- FY 1999 new acquisition model breakdown	www.policyworks.gov/org/main/mt/homepage/mtv/
- FY2000 and FY2001 projected inventories and	KEELINGREPORT/MAINREPORT.htm
new acquisitions (conventional and alternative	Fleet manager interviews
fuel vehicles; light-, medium-, and heavy-duty;	
gasoline and diesel)	
<ul> <li>Number of exempt (security, military, etc.)</li> </ul>	
vehicles purchased in FY1999 and their annual	
fuel consumption	
Combined Fuel Economy Ratings by Light Duty	DOE/EPA Fleet Fuel Economy Guide, MY
Vehicle Category (subcompact, compact, etc.)	1999

# I-1. DOE Baseline Petroleum Fuel Use

The DOE-wide fleet use of gasoline and diesel fuel was determined for fiscal year (FY) 1999, for both covered and non-covered vehicles.

A summary of the DOE-wide fuel use in FY 1999 is provided in Table 3. For FY 1999, the DOE fleet used about 7.3 million gasoline gallons equivalent (GGE) of petroleum fuel nationwide, with slightly more than half of this (on both a gallon and GGE basis) made up of gasoline. This data was based upon the Annual Report to Congress on Federal Government Energy Management and Conservation Programs for FY 1999, submitted by the Department of Energy's Federal Energy Management Program (FEMP) and information provided to the General Services Administration (GSA) for the FY 1999 SF-82 report.

Table 3. DOE Fleetwide Petroleum Fuel Usage for FY 1999

Fuel Type	Total DOE Petroleum Usage, FY 1999 (Gallons)	GGE Conversion Factor	Total DOE Petroleum Usage, FY 1999 (GGE)
Gasoline	3,916,200	1.0	3,916,200
Diesel Fuel	3,014,000	1.147	3,457,058
Total Petroleum Used			7,373,258

The non-road and exempt vehicle fuel use was subtracted from the total fuel use figures to establish the Agency's baseline. This fuel use baseline was then multiplied by 20 percent to determine the required reduction goal. Based on this process, DOE's overall compliance strategy must achieve a total of about 1.2 million GGE savings by FY 2005 when compared with FY 1999 fuel consumption figures, as shown in Table 4.

Table 4. FY 1999 Fuel Use Breakdown for DOE

Total DOE	DOE	DOE	DOE	Baseline DOE
Fleet-wide	leet-wide Non-road Exem		Total Covered	Petroleum 20%
Petroleum Use	Petroleum Use	Petroleum Use	Petroleum Use	Reduction Goal
(GGE)	(GGE)	(GGE)	(GGE)	(GGE)
7,373,258	1,087,099	452,146	5,834,002	1,166,800

# I-2. DOE Fleet Characteristics

The DOE fleet is located in more than fifty individual sites across the country, including program and operational offices. Fleet sizes at these locations range from several thousand to less than a dozen. Because of this complexity in the DOE fleet structure, the decision was made to develop a compliance strategy based on parameters of individual fleet locations rather than on an agency-wide basis.

To achieve the greatest impact from the location-based strategy, the primary focus was placed on sixteen locations having larger DOE fleet vehicles concentrations, with corresponding higher fuel consumption and the potential for more attractive economics associated with refueling infrastructure and vehicle maintenance support for alternative fuel vehicles (AFVs). In 1999, the sixteen fleets were responsible for over 80 percent of the vehicle purchases and over 90 percent of the petroleum consumption of the total DOE fleet. These fleets were selected for implementing the strategy. Table 5 summarizes the data on petroleum use and fleet inventory collected from these sixteen fleets. Note that the majority of light duty vehicles operated by these fleets are leased through GSA.

Table 5. Selected Fleet Locations for DOE-Wide Strategy

	FY1999	FY1999	FY 1999 Fleet Inventory			
	Total	Covered				Percent LDV
	Petroleum	Petroleum				GSA-Leased
DOE Fleet Location	Use (GGE)	Use (GGE) *	LDV**	MDV**	HDV**	
BPA-Willamette	193,596	193,596	400	464	176	100
Brookhaven National Laboratory	157,280	129,179	244	41	3	0
Fermi National Accelerator Laboratory	144,851	144,851	133	81	16	25
Idaho National Engineering and	1,062,272	1,022,714	698	15	249	0
Environmental Laboratory						
Lawrence Berkeley National Laboratory	111,682	110,584	191	56	39	100
Lawrence Livermore National	506,337	462,255	808	51	54	100
Laboratory						
Los Alamos National Laboratory	711,244	432,874	591	468	101	100
National Renewable Energy Laboratory	16,926	15,462	36	12	0	100
NETL-Morgantown	4,786	4,477	15	4	1	100
NETL-Pittsburgh	11,421	9,876	42	7	4	90
Nevada Test Site	1,708,950	1,289,307	1,040	170	257	100
Oak Ridge National Laboratory	667,132	420,293	1,741	220	216	25
Pantex	321,370	244,242	271	7	16	100
Richland-Hanford Site	631,286	593,413	551	823		100
SNL-Kirtland	330,000	312,000	413	320	30	100
Savannah River Site	711,951	366,706	1,472		87	100
Total for Target Fleets	7,291,083	5,751,828	8,646	2,739	1,249	

<sup>\*</sup> Covered = Total - Nonroad - Exempt

The remaining DOE fleet locations not identified in the strategy will be encouraged to reduce their petroleum use by amounts stated in the Executive Order, and will participate in the acquisition of higher fuel economy vehicles and AFVs. In addition, all DOE fleet locations will be required to meet the objectives of other internal or external fuel and energy reduction initiatives. One such initiative is the Pollution Prevention and Energy Efficiency (P2/E2) Leadership Goals effort established by the Secretary in November 1999. The DOE P2/E2 Program established three goals related to transportation:

- 1. Reduce the annual petroleum consumption of the overall DOE fleet by at least 20 percent by 2005 in comparison to 1999, including improving the fuel economy of new light duty vehicle acquisitions, and by other means.
- At least 75 percent of new light duty vehicle acquisitions are to be alternative fuel vehicles, in accordance with the requirements of the Energy Policy Act of 1992 (EPAct).
- 3. Increase the usage rate of alternative fuel in DOE alternative fuel vehicles to 75 percent by 2005, and 90 percent by 2010, in areas where alternative fuel infrastructure is available.

This DOE strategy for compliance with E.O. 13149 is consistent with attaining each of these P2/E2 goals.

<sup>\*\*</sup> LDV= light-duty vehicles; MDV= medium-duty vehicles; HDV= heavy-duty vehicles

# I-3. Basic Assumptions

A variety of assumptions were made in developing the DOE strategy, including the following:

- Biodiesel and E85 (a blend of 85 percent ethanol, 15 percent gasoline) fuel supplies are generally available or would become available in the near-term. Natural gas and electricity supplies are assumed to be currently available at each fleet location, unless otherwise known from discussions with fleet managers.
- Projected vehicle acquisition rates for FY 2001 are assumed to remain stable through FY 2005.
- Projected AFV acquisition rates for FY 2001 through FY 2005 are assumed to be 75 percent of new vehicle acquisitions for all fleet locations.
- The mix (among types of fuels) of future AFV acquisitions is based on interviews with individual fleet managers, as well as fleet AFV acquisitions for FY 1999 and FY 2000, and projections for FY 2001.
- Light duty vehicle turnover in DOE fleet locations is assumed to be five years, on average.
- Activities will be undertaken to ensure new AFVs use alternative fuel 75
  percent and conventional fuel 25 percent of the time on an average annual
  basis.
- AFV refueling is assumed to follow an availability hierarchy: 1) using an existing on-site station, 2) using an existing public station, 3) constructing a new on-site station.

# I-4. Compliance Approach Analysis

Previous DOE analyses indicated that simply purchasing AFVs and using biodiesel at current rates within the DOE fleet would not result in the required 20 percent reduction in petroleum use by FY 2005. Therefore, a more comprehensive strategy was developed for reaching the 20 percent reduction goal.

It was decided that the DOE compliance strategy would consist of four core elements:

- (1) Biodiesel Blend (B20) Use
- (2) AFV Acquisitions and Alternative Fuel Use
- (3) Acquisition of Higher Fuel Economy Vehicles
- (4) Fleet Efficiency Improvements.

These options were chosen for their significant potential for petroleum fuel savings for the DOE fleet. An analysis was performed for each element to determine its potential for reducing petroleum fuel use in the sixteen DOE fleets. Brief discussions of each of the four elements and their application in the strategy follow. (Each discussion begins with a table showing that element's contribution to the overall strategy.)

# (1) Biodiesel Blend Use

Table 6. Summary of B20 Use in DOE Strategy

Total DOE Covered	20% Fuel	Strategy Element 1:	Percent of
Fuel Use in FY 99	Reduction Goal	B20 Fuel Savings	Agency Fuel
(GGE)	(GGE)	(GGE)	Reduction Goal
5,834,002	1,166,800	473,745	40.6

#### Discussion of B20

As the first element of DOE's strategy, B20 (a blend of 80 percent petroleum diesel with 20 percent biodiesel) fuel is proposed to be used in place of conventional diesel fuel at the sixteen fleet locations for both vehicular and non-road diesel equipment. This B20 strategy is estimated to result in an 18 percent GGE savings in annual diesel fuel usage at each fleet location, because every gallon of B20 used displaces about 18 percent of conventional diesel fuel when adjusted for energy content. In terms of DOE's overall fuel reduction goal, the use of B20 at the targeted fleet locations achieves about 40.6 percent of the total goal.

Estimated Cost Impacts of B20. Since B20 can be used in any diesel-powered engine with no engine modifications or costs, both on-road and non-road vehicles and equipment can be operated on B20. B20 can also be stored in existing diesel storage tanks without significant modification or cost. For fleet locations without existing on-site diesel storage and dispensing systems, such systems would have to be installed or existing diesel tanks switched to biodiesel storage. B20 does cost slightly more per gallon (about \$0.20 more per gallon on average) than conventional diesel fuel. However, no additional cost will be incurred for GSA-leased vehicles since under the GSA contracts, DOE fleets will pay the same for B20 fuel as for conventional diesel fuel. GSA may not under current fuel reimbursement agreements, established between the local GSA office and the DOE facility, reimburse the full cost of B20 to fleet. The facility will need to implement a plan to successfully renegotiate the fuel cost issue with the local GSA office.

# (2) AFV Acquisitions and Alternative Fuel Use

**Table 7. Summary of AFV Fuel Savings** 

Total DOE Covered	20% Fuel	Strategy Element 2:	Percent of
Fuel Use in FY 99	Reduction Goal	AFV Fuel Savings	Agency Fuel
(GGE)	(GGE)	(GGE)	Reduction Goal
5,834,002	1,166,800	1,222,511	105*

<sup>\*</sup>This element alone exceeds the E.O. stated 20% goal

# Discussion of AFV Acquisitions and Alternative Fuel Use

AFV Acquisitions. Future AFV acquisitions for each fleet location were first estimated. Agency-wide AFV acquisition rates for FY 2001 and later was set at 75 percent of total new vehicle acquisitions. This provides an aggressive AFV introduction rate through FY 2005 for the strategy. For those fleet locations covered by EPAct (eight of the sixteen are EPAct-covered fleets), the 75 percent AFV acquisition rate is compliant with EPAct requirements.

Estimated Cost Impacts of AFV Acquisitions. The incremental costs of AFVs range from zero to several thousand dollars, depending on the AFV type. However, a new DOE program, called the Fleet Surcharge Program, will help offset the incremental costs of future AFV acquisitions under this DOE strategy when vehicles are leased from the General Services Administration (GSA). The Fleet Surcharge Program, approved by the Deputy Secretary and instituted under an interagency agreement with the General Services Administration (GSA), will place a small surcharge on each DOE fleet vehicle leased from GSA beginning in FY 2001. This is critical since the majority of vehicles operated by DOE fleets are GSA-leased. The surcharge applies to all DOE fleet locations, not just those included in this strategy. In this way, all DOE fleets will share the cost burden of acquiring AFVs for the DOE fleet. The surcharge will be part of the overall monthly lease cost of the vehicles. Surcharge funds will be placed in a separate account for paying the incremental cost of AFVs acquired in FY 2001 and in the years to follow. Those fleets leasing AFVs will pay the same lease price as for conventional gasoline vehicles.

Alternative Fuel Use. While individual DOE fleets are encouraged to purchase dedicated vehicles, bi-fuel and flexible fuel vehicles will also be acceptable. However, the strategy requires that, on average, new AFVs use the alternative fuel for at least 75 percent of the time, consistent with the Department's internal P2/E2 goals. Therefore, DOE fleets can purchase a mix of dedicated, bi-fuel, and flexible fuel vehicles as long as this AFV mix uses at least 75 percent alternative fuel annually. DOE fleet managers will be held responsible for meeting and maintaining the 75 percent alternative fuel use requirement by their AFV fleets.

AFV fleet fuel consumption in FY 2005 was calculated by first estimating the numbers of AFVs in service. Since a five-year light duty vehicle turnover is assumed, only those AFVs acquired in FY 2001 through FY 2005 would still be in service in FY 2005. The amount of petroleum fuel displaced by the AFVs was estimated by multiplying the numbers of AFVs by the annual per vehicle fuel consumption rate of the light duty gasoline vehicles being displaced and multiplied by 75 percent. In general, the annual per vehicle fuel consumption rate was calculated from the fleet's FY 1999 gasoline usage and numbers of light duty gasoline vehicles. For some fleets, this meant first subtracting out estimated gasoline usage by medium and heavy-duty vehicles. An example for the Lawrence Livermore fleet follows:

Fleet Gasoline Usage in FY 1999 = 441,113 GGE
Number of Light Duty Gasoline Vehicles in FY 1999 = 829
Average Annual Light Duty Gasoline Vehicle Fuel Rate = 441,113/829 = 532
GGE/Vehicle
Projected Numbers of New AFVs in Service in FY 2005 = 415
Percentage of Alternative Fuel Use by AFVs = 75%
Total Petroleum Fuel Displaced by AFVs in FY 2005 = 415\*532\*0.75 = 165,585
GGE

As summarized in table 7 above, a total of 1,222,511 GGE are saved with this approach, which is five percent higher than the overall fuel reduction goal of 1,166,800 GGE.

Estimated Cost Impacts of Alternative Fuel Use. Recent national average retail cost figures for E85, liquefied petroleum gasoline (LPG), and compressed natural gas (CNG) are \$1.99/GGE, \$1.62/GGE and \$0.89/GGE, respectively. Electricity on average nationally is about \$0.03 to 0.07/kw-hr which equates to about 1 to 2 cents/mile. However, for vehicles leased through GSA, the monthly mileage fees charged by GSA cover the fuel costs and are the same regardless of vehicle fuel type. Therefore, any higher costs or savings from use of alternative fuel are borne by GSA and not by the fleet leasing the AFV.

AFV refueling infrastructure. The use of alternative fuel vehicles is the most effective means of reducing petroleum fuel use if they are operated on alternative fuels. Therefore, key factors in assigning particular types of AFVs to specific fleet locations will be the availability of on-site or public AFV refueling stations, and a commitment by vehicle operators to using alternative fuels a substantial part of the time in these vehicles. If alternative fuels are not available, provisions must be made for installing AFV refueling equipment. Because of the additional costs associated with using AFVs compared with conventional vehicles, careful consideration will be given for placing these vehicles in appropriate fleets.

Infrastructure requirements were assessed for serving the projected AFV populations at each fleet location. If an AFV refueling station already exists on-site at the fleet location, the future AFVs should refuel using that station. If an on-site station does not exist, but a public station is available, the projected AFVs should use the public station. And if neither an on-site nor a public station is available for a fleet location, a new AFV refueling station will be needed for this location, with the preference on a privately owned station as opposed to government owned. The status of on-site and public refueling stations was determined through fleet interviews and through the use of the DOE's Alternative Fuel Data Center's AFV refueling locator (<a href="https://www.afdc.doe.gov">www.afdc.doe.gov</a>).

Estimated Cost Impacts of AFV Refueling Infrastructure. The projected costs of the new on-site stations were obtained from individual fleet managers for planned installations, or estimated based on installation costs reported in technical literature. Costs represent required installations for serving the projected AFV fleet populations for FY 2005. Table 8 provides an overall

summary of estimated AFV infrastructure costs for the DOE fleet. Total AFV fleet refueling infrastructure costs were estimated at about \$ 2.7 million. It should be noted that \$850,000 of these costs are already funded through a government/industry cost-shared project under the DOE's AFV USER Program. The DOE Office of Energy Efficiency and Renewable Energy (EERE) has identified funds in expired interagency agreements that will be de-obligated to cover the remaining infrastructure costs.

Some DOE fleets have been successful at negotiating the installation of an AFV refueling station with a local fuel provider at minimal extra cost to the fleet. The fleets simply agreed to purchase a specific volume of alternative fuel from the station annually at an agreed fuel price. Also, ensuring that other Federal and non-Federal fleets in the area with AFVs commit to using the station will prevent any shortfalls of the agreed upon fuel use volume over the period of the contract. One such fleet is Los Alamos National Laboratory, which recently had a local E85 fuel provider install a refueling station near the site at no cost to DOE.

Table 8. Projected AFV Refueling Infrastructure Costs

	Available On-Site	AFV Refueli	ng Infrastructu	re Costs (\$)
DOE Fleet Location	or Public AFV Refueling?	E85	CNG	Electric
BPA-Willamette	No	35,000	200,000	
Brookhaven National Laboratory	No		480,000	
Fermilab	Yes (CNG)	75,000		
Idaho National Engineering and Environmental Laboratory	Yes (LCNG)			
Lawrence Berkeley National Laboratory	Yes (CNG)	35,000		110,000
Lawrence Livermore National Laboratory (LLNL)	Yes (CNG)*	50,000	850,000**	
Los Alamos National Laboratory	Yes (CNG, E85, Elect)			
National Renewable Energy	Yes			
Laboratory	(CNG, E85, Elect)			
NETL-Morgantown	Yes (CNG slow)		125,000	
NETL-Pittsburgh	Yes (CNG slow)		125,000	
Nevada Test Site (NTS)	Yes (CNG)***	50,000	500,000	
Oak Ridge National Laboratory	Yes (CNG)	50,000		
Pantex	Yes (CNG)	50,000		
Richland-Hanford Site	No	35,000		
SNL-Kirtland	Yes (E85 & CNG)			
Savannah River Site	Yes (E85)			
Totals		\$355,000	\$2,280,000	\$110,000

<sup>\*</sup> The existing CNG station at LLNL is a slow-fill station that no longer meets the needs of the fleet and is being replaced with a fast-fill station.

<sup>\*\*\*</sup>LLNL has already received funding under the DOE AFV USER Program to partially cover the costs of this station and the remaining costs are being borne by the fuel/station provider.

<sup>\*\*\*</sup>A CNG public station is available in Las Vegas for the smaller portion of the NTS fleet, however infrastructure is needed at the test site to support the majority of the NTS fleet.

# (3) Acquisition of Higher Fuel Economy Vehicles

**Table 9. Summary of Higher Fuel Economy Savings** 

	<del>)                                    </del>		
Total DOE Covered	20% Fuel	Strategy Element 3:	Percent of
Fuel Use in FY 99	Reduction Goal	Higher FE Fuel	Agency Fuel
(GGE)	(GGE)	Savings	Reduction Goal
, ,	, ,	(GGE)	
5,834,002	1,166,800	50,352	4.3

# **Discussion of Higher Fuel Economy**

Fuel savings due to increases in the new fleet vehicle average fuel economy were estimated based on the projected numbers of petroleum-fueled light duty vehicle purchases over the period of FY 2001 through FY 2005, and the annual per vehicle fuel consumption rates of these vehicles. Due to the importance of this strategy element, and to achieving some equity among DOE fleets in sharing the burden of this compliance strategy, it is planned that all DOE fleet locations will be required to meet the higher fuel economy schedule, not just the sixteen targeted locations.

It is anticipated that the DOE fleet would meet the increased average fuel economies of 1.0 mpg by FY 2002 and 3.0 mpg by FY 2005 compared with the FY 1999 baseline by pursuing the following schedule for fleet fuel economy increases in new acquisitions between 2001 and 2005:

- 0.5 mpg increase in FY 2001
- 1.0 mpg increase in FY 2002
- 2.0 mpg increase in FY 2003
- 2.5 mpg increase in FY 2004
- 3.0 mpg increase in FY 2005

For *each* DOE fleet location (since all fleets will participate in this element), FY 1999 baseline average fleet fuel economies were calculated for the vehicle types acquired in that year. For some fleet locations, the baseline fuel economies were calculated from the actual new model acquisitions in FY 1999 and the *Department of Energy/Environmental Protection Agency's Fleet Fuel Economy Guide*. For most fleet locations, however, data was only available for vehicle class and size, not models. As a result, baseline fuel economies were estimated for these vehicles. These estimates were derived by first placing the light duty vehicle acquisitions into size categories, then obtaining the average fuel economies for those categories from the *Department of Energy/Environmental Protection Agency's Fleet Fuel Economy Guide*. In all cases, fleet average fuel economies were calculated using the harmonic averaging method, as described in DOE's guidance document for Federal agencies on E.O. 13149<sup>2</sup>.

<sup>&</sup>lt;sup>2</sup> Executive Order 13149: Greening the Government through Federal Fleet and Transportation Efficiency, guidance Document for Federal Agencies, prepared by U.S. Department of Energy, Office of Technology Utilization, July 2000.

It is anticipated that the schedule for achieving the required fuel economy increase from 2001 through 2005 would be met by individual fleets acquiring vehicles with smaller engines and two-wheel versus four-wheel drives, as well as gasoline hybrid vehicles. However, it will be left to the individual fleets to decide the best means of achieving the fuel economy increases through their annual vehicle acquisition plans.

Table 10 presents data from the Lawrence Livermore fleet to derive the fuel savings achieved at this location by acquiring higher fuel economy vehicles. In this example, the annual per vehicle fuel consumption rates for the new light duty vehicles were calculated from the original per vehicle fuel consumption rate for FY 1999 (532 GGE for Lawrence Livermore), the increased fleet average fuel economy for the given fiscal year (e.g., 18.4 mpg in FY 2001), and the original FY 1999 fleet average fuel economy (17.9 mpg), as follows:

Annual GGE for New LDV in FY 2001 = 532\*17.9/18.4 = 518 GGE

As provided in Table 9, fuel savings associated with higher fuel economy vehicles are estimated to be 50,352 GGE, which equates to about 4.3 percent of the required DOE fuel reduction goal.

Table 10. The Acquisition of Higher Fuel Economy Vehicles at Lawrence Livermore

	FY2001	FY2002	FY2003	FY2004	FY 2005
New LDVs	27	27	27	27	27
Annual GGE/New LDV	518	504	479	467	456
Fuel Usage for New LDVs (GGE)	13,976	13,606	12,921	12,604	12,303
Fuel Usage for FY 1999 LDVs at 532GGE/LDV (GGE)	14,364	14,364	14,364	14,364	14,364
Fuel Saved (GGE) for New LDVs	388	758	1,443	1,760	2,061
Total Fuel Saved in FY2005 (GGE)					6,410

Estimated Cost Impacts of Higher Fuel Economy. The acquisition of conventional high fuel economy vehicles should provide no additional cost impact to DOE fleets. In fact, higher fuel economy vehicles tend to be smaller vehicles with smaller displacement engines whose capital or lease costs are lower than vehicles with lower fuel economies. In addition, the fuel savings realized by fleets due to higher fuel economy vehicle use would result in lower fleet fuel costs.

# (4) Fleet Efficiency Improvements

Table 11. Summary of Fleet Efficiency Fuel Savings

	,		
Total DOE Covered	20% Fuel	Strategy Element 4:	Percent of
Fuel Use in FY 99	Reduction Goal	Fleet Efficiency	Agency Fuel
(GGE)	(GGE)	Fuel Savings	Reduction Goal
, ,	, ,	(GGE)	
5,834,002	1,166,800	226,626	19.4

# Discussion of Fleet Efficiency Improvements

The strategy requires that each fleet location establish a fleet efficiency improvement plan that achieves a minimum 2 percent reduction in overall fleet petroleum fuel consumption relative to the baseline. For a small number of DOE fleets which have low petroleum reductions for the first three elements of the strategy, a minimum 10 to 15 percent reduction resulting from fleet efficiency improvements is suggested in order to achieve higher overall fuel reductions for those locations. A fleet can also exceed the specific goals of the first three strategy elements, in lieu of meeting its fleet efficiency goals, as long as the same overall fuel reduction required by the DOE strategy is achieved.

The DOE strategy does not stipulate which types of efficiency improvement techniques must be instituted by individual fleets. Each fleet manager will assess his or her fleet's efficiency in accomplishing its mission. Using compact sedans in preference to large sedans, rescheduling or combining routes to increase vehicle passenger capacities, and decreasing vehicle trips per day should all be considered in achieving a reduction in petroleum use. An added benefit of these improvements could be increased personnel productivity.

The projected DOE-wide fleet efficiency improvements resulted in 226,626 GGE of fuel savings. This is equal to about 19.4 percent of the total fuel reduction goal of 1,166,800 GGE, as indicated in Table 11.

Estimated Cost Impacts of Fleet Efficiency Improvements. The implementation of fleet efficiency improvements among DOE's fleets should provide a positive cost impact for their operations. The resulting reductions in fleet fuel use, potential reductions in vehicle maintenance, and increases in personnel productivity should all serve to reduce overall fleet operational costs.

# II. AFV Training Program

Given the importance of AFV acquisition and utilization to the DOE compliance strategy, AFV training for fleet personnel will be a key component to its success. Through an orchestrated training program, fleet personnel can become familiar with AFV technology and operation, safety issues, and proper refueling procedures. Most alternative fuel providers offer this type of training as part of an

initial fuel purchase contract or refueling station installation. DOE EERE will assist fleets in negotiating AFV training as part of these contracts for their facilities.

# III. Fleet Management Issues

E.O. 13149 requires that Federal agencies ensure that all government-owned and government-operated vehicles, as well as contractor-operated vehicles under its jurisdiction, comply with goals and objectives of the executive order. This means that contractors must be made aware of and commit to the requirements of E.O. 13149 and this compliance strategy. DOE managers will need to modify contracts with contractors that operate vehicles to ensure compliance under this strategy. DOE's Office of Management and Administration will soon issue guidance to DOE fleets on this issue.

The Department recognizes certain environmental issues that are addressed by E.O. 13149, as well as the earlier E.O. 13101 on "Greening the Government." These Executive Orders require the use of re-refined lubricating oils, with API certification meeting manufacturer's performance standards, in Federal and contractor vehicles, as well as the use of retread tires and tires with recycled content when they are reasonably available and meet performance standards. As directed in the memorandum from Stephen J. Michelsen, Director of the Office of Resource Management, on April 18, 2001, DOE fleet shall use re-refined oil as outlined in these orders. DOE also encourages the use of bio-based products as part of its compliance strategy.

# IV. Results of DOE Strategy

The results expected from implementing the DOE strategy are provided in Table 12. (The analyses of individual fleet locations for developing the strategy results are provided as the Attachments to this document.) Estimated fuel savings are shown for each DOE fleet location. Under this strategy, the largest petroleum use reductions will be achieved through the acquisition of AFVs and use of alternative fuel. The fleet location projected to have the largest total fleet petroleum reduction is the Nevada Test Site, with savings of about 532,900 GGE. All of the targeted fleets are projected to reduce their fleet fuel usage by more than the 20 percent goal. Overall, the strategy's DOE-wide fleet fuel reduction of about 2.0 million GGE is equal to about a 34 percent decrease relative to the FY 1999 covered fuel baseline, well in excess of the 20 percent goal.

In addition, the DOE strategy achieves both performance measures established by E.O. 13149. The order requires the use of alternative fuels in AFVs the majority (greater than 50 percent) of the time, and requires the purchase of higher fuel economy petroleum fueled vehicles to achieve the 1.0 mpg increase in fleet average fuel economy by FY 2002, and the 3.0 mpg increase by FY 2005.

# V. Strategy Compliance Evaluation

DOE's Office of Energy Efficiency and Renewable Energy (EERE), in conjunction with GSA's Office of Government-wide Policy, has recently developed a Webbased reporting tool, called the Federal Automotive Statistical Tool (FAST) for evaluating E.O. 13149 compliance. FAST was based on the Vehicle Information Data System, or VIDS, which DOE fleets became familiar with during FY1999. Many of the data input screens of FAST are identical to those used in VIDS. The Field Management Council has approved the use of the FAST system to collect data from Departmental fleets. FAST can be accessed at the following website:

# http://fastweb.inel.gov

The FAST system does not impose any new reporting requirements on DOE fleets. Instead, it satisfies three Federal reporting requirements: E.O. 13149, EPACT, and GSA's SF-82 Agency Report of Motor Vehicle Data. This ability for fleets to report data for all three programs under FAST should greatly streamline the reporting process. FAST will also provide a unique management tool for fleet managers for characterizing and assessing fleet activities. Compliance with this strategy will be reviewed each year through the use of FAST, and adjustments will be made as necessary to keep pace with evolving DOE fleet requirements. Compliance with using re-refined oil and retread tires will be evaluated based on sites' annual RCRA/E.O. 13101 reports.

# VI. Recognition and Awards

As part of its strategy, special recognition or awards will be given for DOE personnel and/or fleets that exceed the strategy's requirements or exhibit particularly noteworthy leadership in attaining its objectives and the goals of the Executive Order. The nature of this recognition has not yet been determined, but it will likely be similar to the GSA EPACT Award that provides \$2,000 (after tax) to each of two awardees each year. A ceremony will be held at DOE headquarters, potentially in October in conjunction with DOE's P2/E2 awards, to recognize the awardees. It is anticipated that representatives of the Secretary's Office will present the awards.

**Table 12. DOE Compliance Strategy Results** 

		F	Y 1999 Fle	et Fuel Us	е								Strategy Fu			
							_	<del></del> .				i	n FY 2005 (	/	Total F	
	Tanasta d DOE		Non-Road		Total	Baseline	FY	′ 1999 Fl	eet Inve	ntory	Required			Fuel	Savi	ngs
	Targeted DOE Location	Total Fuel Use	Fuel use (GGE)	Fuel Use (GGE)	Covered Fuel Use	LDV FE					On-site AFV Infra			Economy/		0.1
PSO	Location	(GGE)	(GGE)	(GGE)	(GGE)	(mpg)	LDV	M/IID\/	Λ <b>Γ</b> \ /	Exempt	Costs	Diodiocal	AFV Use	Fleet Efficiency	GGE	%
1 00		(GGL)			(OOL)		LDV	M/HDV	AFV	Vehicles	00313	Diodiesei	AFV USE	Improvements		Reduction
BPA	BPA-Willamette	193,596	_	_	193,596	16.7	400	640	41	0	\$235,000	29,172	14,400	8,760	52,331	27.0
Defense	Los Alamos	711.244	_	278,371	432.874	16.7	591	569	244	263	0	32.877	72.075	10.637	115.589	26.7
Programs	Nevada Test	1,708,950		12,348	1,289,307	16.8	1.040	427	111	9	\$550,000	105,085	385,875	41,929	532,889	41.3
i rograms	Site	1,700,930	407,233	12,340	1,203,307	10.0	1,040	421	'''	9	ψ550,000	103,003	303,073	41,929	332,009	41.5
	Pantex	321,370	77,128	-	244,242	16.8	271	23	63	0	\$50,000	20,165	98,280	9,282	127,727	52.3
	SNL-Kirtland	330,000	-	18,000	312,000	16.5	413	350	84	24	0	11,394	71,160	9,389	91,943	29.5
	Lawrence Livermore	506,337	-	44,082	462,255	17.9	808	105	121	30	\$900,000	11,780	165,585	15,655	193,020	41.8
Energy Efficiency	NREL	16,926	-	1,464	15,462	-	36	12	14	2	0	149	13,451	309	13,909	90.0
Environmental	Idaho Eng. &	1,062,272	-	39,558	1,022,714	16.4	698	264	125	57	0	119,991	67,665	23,466	211,102	20.6
Management	Environ. Site Richland-	631,286	-	37,873	593,413	16.4	551	823	84	92	\$35,000	24,337	12,420	89,414	126,172	21.3
	Hanford Site	744.054	000 074	0.474	000 700	40.0	4 470	07	004	00		00.000	404 500	44.000	044.000	00.0
	Savannah River Site	711,951	336,071	9,174	366,706	16.0	1,472	87	284	33	0	68,982	161,588	14,338	244,908	66.8
Fossil Energy	NETL- Morgantown	4,786	-	309	4,477	20.2	15	5	4	1	\$125,000	27	2,781	213	3,022	67.5
	NETL-Pittsburgh	11,421	-	1,545	9,876	18.8	42	11	14	4	\$125,000	109	4,635	330	5,074	51.4
Office of	Brookhaven	157,280	19,766	8,335	129,179	17.5	244	44	9	38	\$480,000	3,570	22,106	3,488	29,164	22.6
Science	Fermilab	144,851	-	-	144,851	-	133	97	19	0	\$50,000	6,477	71,700	2,897	81,074	56.0
	Lawrence Berkeley	111,682	-	1,098	110,584	21.2	191	95	4	3	\$145,000	7,818	43,783	3,485	55,086	49.8
	Oak Ridge*	667,132	246,839	-**	420,293	17.3	1,741	436	14	216***	\$50,000	31,811	15,008	42,583	89,401	21.3
Total fro	om targeted fleets	7,291,083	1,087,099	452,156	5,751,828	16.7	8,646	3,988	1,235	772	\$2,745,000	473,745	1,222,511	276,155	1,972,411	34.3
Totals from n	on-targeted fleets	82,175	-	-	82,175	-	-	-	-	-	0	-	-	822	822	1.0
Tot	al DOE Fleetwide	, ,	, ,		, ,	16.83		-		-	\$2,745,000	473,745	1,222,511	276,977	1,973,233	33.8
	Req		Fuel Use R		, ,											

<sup>\*</sup> In addition to the Office of Science LPSO, some Oak Ridge National Laboratory operations fall under the Defense Programs and Environmental Management LPSOs. \*\* Exempt fuel use included under non-road fuel use

<sup>\*\*\*</sup> Exempt vehicles include non-road vehicles

# Attachments Individual DOE Fleet Location Analyses

# **BPA-WILLAMETTE**

	TOTAL1999 (GAL)	GGE	1999 NON-R GAL	GGE	GAL	1999 EXEMI	TOTAL GGE	2005 GOAL GGE REDUC	<u>T</u>				
GASOL DIESEL	32,074 140,821	32,074 161,522			0	0	32,074 161,522	_					
TOTAL	140,021	193,596				-	193,596	38,719					
DATA -VIDS													
57(17) 1150	1999			2000				2001					
LDV	INVENTORY 400	NEW TOTAL 55	L NEW AFV 34	INVENTORY 153	Y	NEW TOTAL	L NEW AFV 6	139	NEW TOTAL 32	NEW AFV 2			
MDV	464			464				464					
HDV AFV	176 41			176				176		_			
	GASOL	DIESEL	EXEMPT							_			
LDV MDV	200	200 464	0		Assumed al	I LDV gasoline;	all M/HDV dies	el					
HDV		176	Ö										
FUEL ECON	OMY (NEW	ACQUISIT	IONS) - VID	s									
Vehicle Type	e			1999		Fuel Econo			_				
Make Ford	Model MINICOMPAC	Cylinders T	Drive	Acquisition 0	ıs	City FE	Hwy FE	Combined F 0	<u>0</u>	_			
Ford	SUBCOMPAC	T		0				0	0				
	COMPACT MIDSIZE			1		20.3 19.7	28.5 29	23 23	0.043436023				
	LARGE					18	25	21	0				
	TWO-SEATER SMALL P/U	₹		4		16.1	20.2	0 18	0.225754874				
	LARGE P/U			12		14.3	19.1	16	0.744260975				
	SMALL VAN LARGE VAN			3		15.5 14.2	20.7 19.1	17 16	0.057223001 0.186877811				
	LARGE VAN					14.4	10.1	10	v.1000//811				
		_				Becoline A	rorago EE						
						Baseline Av FY2002 FE	Goal		16.7 17.7	_			
						FY2005 FE	Goal		19.7				
	* Average fue	l economy va	lues estimated l	by category ba	sed on FY 1999	New GSA Leas	ed Vehicles for	DOE fleet					
-		el economy g											
TEGY													
	ESEL USE												
2.0011	- Willamette h	as HDV fleet											
			ns constant thro										
	- Assume tota	ii conversion											
			EQUIV FY20	05		FY01	FY02	FY03	FY04	FY05			
FY 2005	FY2005		EUEL DIODI	(0.05)									
<u>Diesel (gal)</u> 140.821	B20 USE (gal 143.567 CQUISITION - AFV Refueli - Willamette r - Non-AFV ac	IS - VIDS ng access (< 'oot in MSA quisition rates	FUEL DISPL 29.172 15 miles) = ???	e as FY2001		29.172	29.172	29.172	29.172	29.172	_	_	
<u>Diesel (gal)</u> 140.821	B20 USE (gal 143,567 CQUISITION - AFV Refueli - Willamette - Non-AFV ac - Afv acquisit - All acquisit - LDV turnove - Mix of AFVs	IS - VIDS ng access (< ' oot in MSA quisition rates ion rates assumed or assumed to based on 199	FUEL DISPL 29.172  15 miles) = ???  s assumed sam umed 75% for F' to be LDV be five years 9 purchased (5	e as FY2001 Y2001 thru Fy2		29.172	29.172	29.172	29.172	29.172			
<u>Diesel (gal)</u> 140.821	B20 USE (qal 143.567 CQUISITION - AFV Refueli - Willamette r - Non-AFV ac - Afv acquisiti - All acquisiti - LDV turnove - Mix of AFVs - Ava annual	IS - VIDS  ng access (< 7 tot in MSA quisition rates ton rates assumed to assumed to based on 199 LDV fuel use:	FUEL DISPL 29.172 15 miles) = ??? s assumed sam imed 75% for F' to be LDV be five years. 9 purchased (5i = 32074/200 = 1	e as FY2001 Y2001 thru Fy2	E85)	29.172	29.172	29.172	29.172	29.172			
<u>Diesel (gal)</u> 140.821	B20 USE (qal 143.567 CQUISITION - AFV Refueli - Willamette r - Non-AFV ac - Afv acquisiti - All acquisiti - LDV turnove - Mix of AFVs - Ava annual	IS - VIDS ng access (<'otin MSA quisition rates assu- not assumed or assumed to based on 199 LDV fuel use med to use Cl	FUEL DISPL 29.172 15 miles) = ??? s assumed sam imed 75% for F' to be LDV be five years. 9 purchased (5i = 32074/200 = 1	e as FY2001 Y2001 thru Fy2	E85) ed 75% E85 use	29.172		29.172		29.172	2004		2005
<u>Diesel (gal)</u> 140.821	B20 USE (qal 143.567 CQUISITION - AFV Refueli - Willamette r - Non-AFV ac - Afv acquisiti - All acquisiti - LDV turnove - Mix of AFVs - Ava annual	IS - VIDS  ng access (< 7 tot in MSA quisition rates ton rates assumed to assumed to based on 199 LDV fuel use:	FUEL DISPL 29.172 15 miles) = ??? s assumed sam imed 75% for F' to be LDV be five years. 9 purchased (5i = 32074/200 = 1	e as FY2001 Y2001 thru Fy2	E85)	29.172	29.172 29.172 2002 Total	29.172 AFV	29.172 2003 Total	29.172 AFV	2004 Total	AFV	2005 Total
<u>Diesel (gal)</u> 140.821	B20 USE (qal 143.567 CQUISITION - AFV Refueli - Willamette r - Non-AFV ac - AfV acquisit - All acquisit - LDV turnow - Mix of AFVs - Avq annual - Bi-fuel assu	IS - VIDS ng access (< ' tot in MSA quisition rates on rates assumed r assumed to based on 193 LDV fuel use med to use C 2000	FUEL DISPL 29.172 15 miles) = ??? s assumed sam imed 75% for Ft to be LDV be five years 19 purchased (5 2 32074/200 = 1 NG 75% of time)	e as FY2001 Y2001 thru Fy2	E85) ed 75% E85 use 2001		2002		2003			AFV 24	
<u>Diesel (gal)</u> 140.821	B20 USE (qal 143.567 CQUISITION - AFV Refueli - Willamette r - Non-AFV ac - Afv acquisiti - All acquisiti - LDV turnow - Mix of AFVs - Avq annual - Bi-fuel assu	IS - VIDS ng access (< ' ot in MSA quisition rates ion rates assumed or assumed to based on 193 med to use Ci  2000 Total	FUEL DISPL 29.172  15 miles) = ??? 5 assumed sam med 75% for F' to be LDV be five years 9 purchased (5' = 32074/200 = 1 NG 75% of time: AFV	e as FY2001 1/2001 thru Fy2 0% CNG: 50% I 60 GGE FFVs assume	E85) 201 Total 32	AFV 24	2002 Total 32	AFV	2003 Total	AFV	Total		Total
<u>Diesel (gal)</u> 140.821	B20 USE (qal 143.567 CQUISITION - AFV Refueli - Willamette r - Non-AFV ac - Afv acquisiti - All acquisiti - LDV tumove - Mix of AFVs - Avg annual - Bi-fuel assu	IS - VIDS ng access (< :otin MSA quisition rates ion rates assumed or assumed to based on 199 LDV fuel use med to use Ci 2000 Total 36	FUEL DISPL 29.172  15 miles) = ??? 5 assumed sam umed 75% for F' to be LDV be five years 19 purchased (5/ 5 32074/200 = 1 NG 75% of time; 6	e as FY2001 Y2001 thru FY2 0% CNG; 50% I 60 GGE FFVs assume	E85) 2001 Total 32	AFV 24 AFV Refueli	2002 Total 32	AFV 24	2003 Total 32	AFV 24	Total 32	24	Total
<u>Diesel (gal)</u> 140.821	B20 USE (rail 143.567  CQUISITION - AFV Refueli - Willamette I - Non-AFV acquisit - All acquisit - All acquisit - LDV turnow - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV Total AFVs in	IS - VIDS ng access (< :otin MSA quisition rates ion rates assumed or assumed to based on 199 LDV fuel use med to use Ci 2000 Total 36	FUEL DISPL 29.172  15 miles) = ??? 5 assumed sam umed 75% for F' to be LDV be five years 19 purchased (5/ 5 32074/200 = 1 NG 75% of time; 6	e as FY2001 1/2001 thru Fy2 0% CNG: 50% I 60 GGE FFVs assume	E85) 2001 Total 32	AFV 24	2002 Total 32	AFV	2003 Total	AFV	Total		Total
<u>Diesel (gal)</u> 140.821	B20 USE (gal 143.567  CQUISITION - AFV Refueli - Willameter - Non-AFV acquisit - All acquisit - Mix of AFVs - Avq annual - Bi-fuel assu  LDV - MDV - HDV  Total AFVs in CNG bi-fuel - 885 FFV	IS - VIDS ng access (< 100 tin MSA quisition rates on rates assi ns assumed for assumed for assumed for assumed to use Ci 2000 Total 36  Service in FY 60 60	FUEL DISPL 29.172  15 miles) = ??? 5 assumed sam umed 75% for F' to be LDV be five years 19 purchased (5/ 5 32074/200 = 1 NG 75% of time; 6	e as FY2001 Y2001 thru Fy2 0% CNG; 50% I 60 GGE FFVs assume Total AF Us in FY 2005 7200	E85) 2001 Total 32	AFV 24 AFV Refueli Infra	2002 Total 32	AFV 24	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
<u>Diesel (gal)</u> 140.821	B20 USE (gal 143.567  CQUISITION - AFV Refueli - Willamette r - Non-AFV ac - Afv acquisit - All acquisit - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV - HDV  Total AFVs in CNG bi-fuel	IS - VIDS ng access (< 'cook or in MSA quisition rates ion rates assumed for based no 18 based no 18 based no 19 LDV fuel use med to use Ci 2000 Total 36  Service in FY 60	FUEL DISPL 29.172  15 miles) = ??? 5 assumed sam umed 75% for F' to be LDV be five years 19 purchased (5/ 5 32074/200 = 1 NG 75% of time; 6	e as FY2001 Y2001 thru Fy2 0% CNG; 50% I 60 GGE FFVs assume Total AF Us in FY 2005 / 7200	E85) 2001 Total 32	AFV 24  AFV Refueli Infra 250000	2002 Total 32	AFV 24	2003 Total 32	AFV 24	Total 32	24	Total
Diesel (gal) 140.821  2. AFV A	B20 USE (gal 143.567  CQUISITION - AFV Refueli - Willamette r - Non-AFV acquisit - All acquisit - All acquisit - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total	IS - VIDS ng access (< 10 to fin MSA quisition rates assi non rates assi nons assumed for assumed for assumed to use Ci 2000 Total 36  Service in FY 60 120 Teases	FUEL DISPL 29.172  15 miles) = ??? s assumed samumed 75% for F1 to be LDV be five years 19 purchased (5 = 32074/200 5 1 NG 75% of time:  AFV 6	e as FY2001 Y2001 thru Fy2 0% CNG; 50%   60 GGE FFVs assume Total AF Us in FY 2005 7200 7200 14400	E85)  2001  Total  32  See  (GGE)	AFV 24  AFV Refueli Infra 250000	2002 Total 32	AFV 24	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
Diesel (gal) 140.821  2. AFV A	B20 USE (gal 143.567  CQUISITION - AFV Refueli - Willamette r - Non-AFV acquisit - All acquisit - All acquisit - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total	IS - VIDS ng access (< 'oo' tin MSA quisition rates ion rates assumed rassumed for assumed for based on 19 based on 19 based on 19 compared to use Cr  2000 Total 36  Service in FY 60 60 120 120 reases dually increas	FUEL DISPL 29.172  15 miles) = ??? s assumed sam imed 75% for Ft to be LDV be five years 19 purchased (5 a 32074/200 5 a AFV 6  2005	e as FY2001 Y2001 thru Fy2 0% CNG; 50%   60 GGE FFVs assume Total AF Us in FY 2005 7200 7200 14400	E85)  2001  Total  32  See  (GGE)	AFV 24  AFV Refueli Infra 250000	2002 Total 32	AFV 24	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
Diesel (gal) 140.821  2. AFV A	B20 USE (gal 143.567  CQUISITION - AFV Refueli - Willamette r - Non-AFV acquisit - All acquisit - All acquisit - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total	IS - VIDS ng access (< 'oo' tin MSA quisition rates ion rates assumed for assumed for assumed for assumed for assumed to the same of the s	FUEL DISPL 29.172  15 miles) = ??? s assumed sam med 75% for F to be LDV be five years 19 purchased (5 a 32074/20 6 a AFV 6  AFV 6  2005	e as FY2001 Y2001 thru Fy2 0% CNG; 50%   60 GGE FFVs assume Total AF Us in FY 2005 7200 7200 14400	E85)  2001  Total  32  See  (GGE)	AFV 24  AFV Refueli Infra 250000	2002 Total 32	AFV 24	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
Diesel (gal) 140.821  2. AFV A	B20 USE (gal 143.567  CQUISITION - AFV Refueli - Willamette r - Non-AFV acquisit - All acquisit - All acquisit - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total	IS - VIDS ng access (< 'cook of m MSA quisition rates assumed nr assumed to based on 19 LDV fuel use : med to use Cl 2000 Total 36  Service in FY 60 120  Feases dually increas - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0	FUEL DISPL 29.172  15 miles) = ??? s assumed samumed 75% for Fi to be LDV be five years 9 purchased [5 a 32074/20 = 32074/20 = 6  AFV 6  (2005)  ing FE consiste mpg increase mpg increase mpg increase	e as FY2001 Y2001 thru Fy2 0% CNG; 50%   60 GGE FFVs assume Total AF Us in FY 2005 7200 7200 14400	E85)  2001  Total  32  See  (GGE)	AFV 24  AFV Refueli Infra 250000	2002 Total 32	AFV 24	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
Diesel (gal) 140.821  2. AFV A	B20 USE (gal 143.567  CQUISITION AFV Refueli Willameter Willameter All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV Total AFVs in CNG bi-fuel - 885 FFV Total  CONOMY Inc - Require gra	IS - VIDS ng access (< 'oo' cot in MSA quisition rates assumed or assumed for seed for assumed for ass	FUEL DISPL 29.172  15 miles) = ??? s assumed sam med 75% for F to be LDV be five years 9 purchased (5 20074/200 = 1 NG 75% of time;  AFV 6  2005  ing FE consiste mpg increase	e as FY2001 Y2001 thru Fy2 0% CNG; 50% I 60 GGE FFVs assume  Total AF Us in FY 2005 7200 7200 14400	E85)  2001 Total 32  se ((GGE)	AFV 24  AFV Refueli Infra 250000 32500	2002 Total 32	AFV 24	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
Diesel (gal) 140.821  2. AFV A	B20 USE (gal 143.567  C QUISITION - AFV Refueli - Willamette I - Non-AFV acquisit - All acquisit - All acquisit - LDV turnow - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV - Total AFVs in CNG bi-fuel E85 FFV Total  CONOMY Inc - Require grae  - Achieve inci	IS - VIDS ng access (< : oct in MSA quisition rate: on rates assi quisition rate: on rates assi made for assumed for assumed for assumed to assumed to use Ci med to use Ci 2000 Total 36  Service in FY 60 120  reases S dually increas - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY04 = 2.5 - FY05 = 3.0 - FY05 = 3.0 - FY05 = 3.0 - FY05 = 5.0 - FY05	FUEL DISPL 29.172  15 miles) = ??? s assumed sam imed 75% for F1 to be LDV be five years 9 purchased (5 = 32074/200 = 1 NG 75% of time:  AFV 6  2005  ing FE consiste mpg increase	e as FY2001 Y2001 thru Fy2 0% CNG; 50% I 60 GGE FFVs assume  Total AF Us in FY 2005 7200 7200 14400	E85)  2001  Total  32  See  (GGE)	AFV 24  AFV Refueli Infra 250000 32500	2002 Total 32	AFV 24	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
Diesel (gal) 140.821  2. AFV A	B20 USE (gal 143.567  CQUISITION AFV Refueli Willamette a AFV acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV HDV HDV Total AFVs in CNG bi-fuel - E85 FFV Total  CONOMY Inc - Require gra  - Achieve inc: - Achieve inc: - LDV turnove	IS - VIDS ng access (< 'oo' cot in MSA quisition rates assumed or assumed for	FUEL DISPL 29.172  15 miles) = ??? s assumed sam med 75% for F to be LDV be five years 9 purchased (5 20074/200 = 1 NG 75% of time;  AFV 6  2005  ing FE consiste mpg increase	e as FY2001 Y2001 thru Fy2 0% CNG; 50% I 60 GGE FFVs assume  Total AF Us in FY 2005 7200 7200 14400 ent with FY02 a	E85)  2001 Total 32  se ((GGE)	AFV 24  AFV Refueli Infra 250000 32500	2002 Total 32	AFV 24	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
Diesel (gal) 140.821  2. AFV A	B20 USE (gal 143.567  CQUISITION AFV Refueli Willamette a AFV acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV HDV HDV Total AFVs in CNG bi-fuel - E85 FFV Total  CONOMY Inc - Require gra  - Achieve inc: - Achieve inc: - LDV turnove	IS - VIDS ng access (< 'oo' to MsA  quisition rates assumed  for assumed for  assumed for  assumed to  get a common  and  and  and  and  and  and  and  an	FUEL DISPL 29.172  15 miles) = ??? s assumed sam Imed 75% for F1 to be LDV be five years 19 purchased (5 e 32074/200 = 1 NG 75% of time:  AFV 6  AFV 6  2005  ing FE consiste mpd increase	e as FY2001 Y2001 thru Fy2 O% CNG: 50% 60 GGE FFVs assume  Total AF Us in FY 2005 7200 7200 14400 ent with FY02 a	E85)  d 75% E85 use  2001  Total  32  se (GGE)  and FY05 qoals	AFV 24  AFV Refueli Infra 250000 32500  hybrids rr and avg 16.7	2002 Total 32 sing	AFV 24	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
Diesel (gal) 140.821  2. AFV A	B20 USE (gal 143.567  CQUISITION - AFV Refueli - Willamette r - Non-AFV ac - Av acquisit - All acquisit - All acquisit - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu - Bi-fuel assu - LDV - MDV - Total AFVs in - CNG bi-fuel - E85 FFV - Total - Require gra - Achieve inci - LDV turnove - Assume ave - New LDV	IS - VIDS ng access (< 'oo' tin MSA quisition rates assumed to rassumed to rassumed to rassumed to rassumed to rassumed to use Ci  2000 Total 36  Service in FY 60 60 120  Feases dually increas - FYO1 = 0.5 - FYO2 = 1.0 - FYO3 = 2.0 - FYO3 = 2.0 - FYO3 = 2.0 - FYO4 = 3.0 - FYO5	FUEL DISPL 29.172  15 miles) = ??? s assumed sam imed 75% for F to be LDV be five years 9 purchased (5 = 32074/200 = 1 NG 75% of time;  AFV 6	e as FY2001 Y2001 thru Fy2 0% CNG; 50% 1 60 GGE FFVs assume  Total AF Us in FY 2005 7200 7200 14400 ent with FY02 a	E85)  d 75% E85 use  2001  Total  32  se (GGE)  and FY05 qoals	AFV 24  AFV Refueli Infra 250000 32500  AFV Refueli Infra 250000 325000 32500 32500 32500 32500 32500 32500 32500 32500 32500 325000 325000 325000 32500 32500 32500 325000 32500 32500 32500 32500 32	2002 Total 32 sing	AFV 24	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
Diesel (gal) 140.821  2. AFV A	B20 USE (gal 143.567  CQUISITION - AFV Refueli - Willametter - Non-AFV acquisit - All acquisit - Mix of AFVs - Avg annual - Bi-fuel assu  LDV - MDV - HDV  Total AFVs in CNG bi-fuel - E85 FFV - Total  CONOMY InC - Require gran - Achieve inc - LDV turnove - Assume ave  New LDV - AGLIEVE - New LDV	IS - VIDS na access (< 'cook of marka, a cook of marka, a	FUEL DISPL 29.172  15 miles) = ???  s assumed sammed 75% for Ft to be LDV be five years. 9 purchased (5 miles) AFV 6  20074/200 = 1 NG 75% of time;  AFV 6  2005  ing FE consiste mpg increase mpg incre	e as FY2001 Y2001 thru Fy2 0% CNG: 50% I 60 GGE FFVs assume  Total AF Us in FY 2005 I 7200 7200 14400 ent with FY02 a	E85)  d 75% E85 use  2001  Total  32  se (GGE)  and FY05 qoals	AFV 24  AFV Refueli Infra 250000 32500  hybrids rand avg 16.7 FY04 8 139	2002 Total 32 inq mpq FY05 8 136	AFV 24	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
Diesel (gal) 140.821  2. AFV A	B20 USE (gal 143.567  CQUISITION - AFV Refueli - Willameter - Willameter - AFV acquisit - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu  LDV - HDV - Total AFVs in CNG bi-fuel - Require gran - Achieve inc Achieve inc LDV turnove - Assume ave	IS - VIDS ng access (< 'oo' cot in MSA quisition rates assumed for assumed for assumed for assumed for assumed to use Cl 2000 Total 36  Service in FY 60 60 120  Geases dually increas - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY04 = 2.5 - FY05 = 3.0 - FY04 = 2.5 - FY05 = 3.0 - FY	FUEL DISPL 29.172  15 miles) = ???  s assumed sam med 75% for Ft to be LDV be five years (9) be five years (9) be five years (9) AFV 6  AFV 6  (2005)  (2005)  (2005)  (2005)  (2005)  (2005)  (2005)  (2006)  (2006)  (2007)	e as FY2001 Y2001 thru Fy2 0% CNG: 50% I 60 GGE FFVs assume  Total AF Us in FY 2005 / 7200 14400 ent with FY02 a ection of vehicl a 2672 mi/yr ba: FY03 8 143 1143 928	E85)  d 75% E85 use  2001 Total 32  se (GGE)  and FY05 qoals  le types, use of 1  sed on 160 qal/s	AFV 24  AFV Refueli Infra 250000 32500  AFV Refueli Infra 250000 325000 32500 32500 32500 32500 32500 32500 32500 32500 32500 325000 325000 325000 32500 32500 32500 325000 32500 32500 32500 32500 32	2002 Total 32 inq FY05 8 136 1085 1023	AFV 24 FY01 2880	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
Diesel (gal) 140.821  2. AFV A	B20 USE (gal 143.567  C QUISITION - AFV Refueli - Willamette I - Non-AFV acquisit - All acquisit	IS - VIDS ng access (< 'oo' cot in MSA quisition rates assumed for assumed for assumed for assumed for assumed to use Cl 2000 Total 36  Service in FY 60 60 120  Geases dually increas - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY04 = 2.5 - FY05 = 3.0 - FY04 = 2.5 - FY05 = 3.0 - FY	FUEL DISPL 29.172  15 miles) = ???  s assumed sam imed 75% for F to be LDV be five years 9 purchased (5 f 32074/20 f 6  AFV 6  72005  AFV 6  72005  Temps increase mpg increas	e as FY2001 Y2001 thru Fy2 0% CNG: 50%   60 GGE FFVs assume  Total AF Us in FY 2005   7200 7200 14400 ent with FY02 a	E85)  d 75% E85 use  2001 Total 32  se  (GGE)  and FY05 goals  le types, use of sed on 160 gal/y	AFV 24  AFV Refueli Infra 250000 32500  hybrids rand avg 16.7 FY04 8 139	2002 Total 32 sing mpg FY05 8 136 1085	AFV 24 FY01 2880	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
Diesel (gal) 140.821  2. AFV A	B20 USE (gal 143.567  CQUISITION - AFV Refueli - Willameter - Willameter - AFV acquisit - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu  LDV - HDV - Total AFVs in CNG bi-fuel - Require gran - Achieve inc Achieve inc LDV turnove - Assume ave	IS - VIDS ng access (< 'oo' con	FUEL DISPL 29.172  15 miles) = ???  s assumed sam med 75% for Ft to be LDV be five years (9) be five years (9) be five years (9) AFV 6  AFV 6  (2005)  (2005)  (2005)  (2005)  (2005)  (2005)  (2005)  (2006)  (2006)  (2007)	e as FY2001 Y2001 thru Fy2 0% CNG: 50% I 60 GGE FFVs assume  Total AF Us in FY 2005 / 7200 14400 ent with FY02 a ection of vehicl a 2672 mi/yr ba: FY03 8 143 1143 928	E85)  d 75% E85 use  2001 Total 32  se (GGE)  and FY05 qoals  le types, use of 1  sed on 160 qal/s	AFV 24  AFV Refueli Infra 250000 32500  hybrids rand avg 16.7 FY04 8 139	2002 Total 32 inq FY05 8 136 1085 1023	AFV 24 FY01 2880	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
Diesel (gal) 140.821 2. AFV A	B20 USE (gal 143.567  C QUISITION - AFV Refueli - Willamette I - Non-AFV ac - Afv acquisit - All acquisit - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu - LDV - MDV - Total AFVs in - CNG bi-fuel - E85 FFV - Total - Require gra - Achieve inci - LDV turnove - Assume ave - Assume ave - New LDV - Gall Agl used - Gal saved Cu - Total qal savel - Total qal savel - Total qal savel	IS - VIDS ng access (< 'oo' to MSA  quisition rates  ion rates assumed for  assumed for  assumed for  assumed to	FUEL DISPL 29.172  15 miles) = ???  s assumed sam imed 75% for F to be LDV be five years 9 purchased (5 = 32074/200 5  AFV 6  72005  AFV 6  72005  AFV 6  FY02  FY02  FY02  FY02  8  151  1208  893  893	e as FY2001 Y2001 thru Fy2 0% CNG: 50% I 60 GGE FFVs assume  Total AF Us in FY 2005 / 7200 14400 ent with FY02 a ection of vehicl a 2672 mi/yr ba: FY03 8 143 1143 928	E85)  2001 Total 32  See (GGE)  and FY05 goals  le types, use of 1  sed on 160 gal/\(\delta\)	AFV 24  AFV Refueli Infra 250000 32500  hybrids rr and avg 16.7 FY04 8 139 1113	2002 Total 32 inq FY05 8 136 1085 1023	AFV 24 FY01 2880	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
Diesel (gal) 140.821  2. AFV A  3. Fuel E	B20 USE (gal 143.567  CQUISITION AFV Refueli - Willamette r - Non-AFV acquisit - All acquisit - LDV turnov - Mix of AFVs - Avq annual - Bi-fuel assu  LDV - MDV - HDV  Total AFVs in CNG bi-fuel - E85 FFV - Total  CONOMY InC - Require gran - Achieve incı - LDV turnov - Assume ave  New LDV - New gal used Gal Saved Cu - Total gal save - Efficiency Im	IS - VIDS ng access (< 'oo' to MSA  quisition rate: fon rates assumed  rassumed for assumed for  assumed for  assumed for  general forms assumed for  red to use Ci  2000 Total 36  Service in FY  60 60 120  Fenal forms form	FUEL DISPL 29.172  15 miles) = ???  s assumed sam imed 75% for F to be LDV be five years 9 purchased (5 = 32074/200 5  AFV 6  72005  AFV 6  72005  AFV 6  FY02  FY02  FY02  FY02  8  151  1208  893  893	e as FY2001 Y2001 thru Fy2 0% CNG: 50% I 60 GGE FFVs assume  Total AF Us in FY 2005 / 7200 14400 ent with FY02 a ection of vehicl a 2672 mi/yr ba: FY03 8 143 1143 928	E85)  2001 Total 32  See (GGE)  and FY05 goals  le types, use of 1  sed on 160 gal/\(\delta\)	AFV 24  AFV Refueli Infra 250000 32500  hybrids rr and avg 16.7 FY04 8 139 1113	2002 Total 32 inq FY05 8 136 1085 1023	AFV 24 FY01 2880	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
Diesel (gal) 140.821  2. AFV A  3. Fuel E	B20 USE (gal 143.567  CQUISITION AFV Refueli Willameter a AV acquisit - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu - Bi-fuel assu - LDV - MDV - HDV - Total AFVs in CNG bi-fuel - E85 FFV - Total  CONOMY InC - Require gra  - Achieve inc: - LDV turnove - Assume ave  New LDV - Reduced ve - Reduced ve - Reduced ve - Increased ve	IS - VIDS ng access (< 'oo' to MSA  quisition rates assumed  to sassumed for  assumed for  assumed to  assumed to  get of the form of the  compared to use Ci  2000 Total 36  Service in FY  60 60 120  FY01 = 0.5 60 120  FY02 = 0.5 60 120 FY03 = 2.0 60 FY03 = 2.0 60 FY04 = 2.5 60 FY05 = 3.0 60 FY05 = 3.0 60 FY06 = 3.0 60 FY07 = 3.0 60 FY08 = 3.0 60 FY09 = 3.0 60 FY0	FUEL DISPL 29.172  15 miles) = ???  s assumed sam imed 75% for F to be LDV be five years 9 purchased (5 = 32074/200 5  AFV 6  72005  AFV 6  72005  AFV 6  FY02  FY02  FY02  FY02  8  151  1208  893  893	e as FY2001 Y2001 thru Fy2 0% CNG: 50% I 60 GGE FFVs assume  Total AF Us in FY 2005 / 7200 14400 ent with FY02 a ection of vehicl a 2672 mi/yr ba: FY03 8 143 1143 928	E85)  2001 Total 32  See (GGE)  and FY05 goals  le types, use of 1  sed on 160 gal/\(\delta\)	AFV 24  AFV Refueli Infra 250000 32500  hybrids rr and avg 16.7 FY04 8 139 1113	2002 Total 32 inq FY05 8 136 1085 1023	AFV 24 FY01 2880	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
Diesel (gal) 140.821  2. AFV A  3. Fuel E	B20 USE (gal 143.567  CQUISITION - AFV Refueli - Willamette I - Non-AFV acquisit - All acquisit - All acquisit - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu - Bi-fuel assu - DV - MDV - Total AFVs in CNG bi-fuel - E85 FFV - Total  CONOMY InC - Require grad - Achieve inc: - LDV turnove - Assume ave - Assume ave - Mew LDV - qal/LDV - New gal used - Gal saved in - Gal Saved in - Gal Saved in - Gal Saved in - Reduced ve - Increased ve	IS - VIDS ng access (x ' oot in MSA quisition rates assumed to in rates assumed to rassumed to rassumed to rassumed to rassumed to rassumed to rassumed to use Cl  2000 Total 36  Service in FY 60 60 120  FY01 = 0.5 FY02 = 1.0 FY03 = 2.0 FY03 = 2.0 FY04 = 2.5 FY05 = 3.0 FY05 = 3.0 FY05 = 3.0 FY05 = 3.0 FY06 = 3.0 FY07 = 3.0 FY08 = 3.0 FY09 =	FUEL DISPL 29.172  15 miles) = ??? s assumed samumed 75% for F1 to be LDV be five years. 9 purchased (5 to F2 to F	e as FY2001 Y2001 thru Fy2 0% CNG; 50%   60 GGE FFVs assume  Total AF Us in FY 2005 7200 14400 ent with FY02 a  FY03 8 143 1143 928 1821	E85)  d 75% E85 use  2001 Total 32  see (GGE)  de types, use of 100 gal/s  ged on 160 gal/s  4888	AFV 24  AFV Refueli Infra 250000 32500  hybrids rr and avg 16.7 FY04 8 139 1113	2002 Total 32 inq FY05 8 136 1085 1023	AFV 24 FY01 2880	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
Diesel (gal) 140.821  2. AFV A  3. Fuel E	B20 USE (gal 143.567  CQUISITION - AFV Refueli - Willamette I - Non-AFV acquisit - All acquisit - All acquisit - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu - Bi-fuel assu - DV - MDV - Total AFVs in CNG bi-fuel - E85 FFV - Total  CONOMY InC - Require grad - Achieve inc: - LDV turnove - Assume ave - Assume ave - Mew LDV - qal/LDV - New gal used - Gal saved in - Gal Saved in - Gal Saved in - Gal Saved in - Reduced ve - Increased ve	IS - VIDS ng access (x ' oot in MSA quisition rates assumed to in rates assumed to rassumed to rassumed to rassumed to rassumed to rassumed to rassumed to use Cl  2000 Total 36  Service in FY 60 60 120  FY01 = 0.5 FY02 = 1.0 FY03 = 2.0 FY03 = 2.0 FY04 = 2.5 FY05 = 3.0 FY05 = 3.0 FY05 = 3.0 FY05 = 3.0 FY06 = 3.0 FY07 = 3.0 FY08 = 3.0 FY09 =	FUEL DISPL 29.172  15 miles) = ???  s assumed sam imed 75% for F to be LDV be five years 9 purchased (5 = 32074/200 5  AFV 6  72005  AFV 6  72005  AFV 6  FY02  FY02  FY02  FY02  8  151  1208  893  893	e as FY2001 Y2001 thru Fy2 0% CNG; 50%   60 GGE FFVs assume  Total AF Us in FY 2005 7200 14400 ent with FY02 a  FY03 8 143 1143 928 1821	E85)  d 75% E85 use  2001 Total 32  see (GGE)  de types, use of 100 gal/s  ged on 160 gal/s  4888	AFV 24  AFV Refueli Infra 250000 32500  hybrids rr and avg 16.7 FY04 8 139 1113	2002 Total 32 inq FY05 8 136 1085 1023	AFV 24 FY01 2880	2003 Total 32	AFV 24	Total 32 FY04	FY05	Total
Diesel (gal) 140.821  2. AFV A  3. Fuel E	B20 USE (gal 143.567  C QUISITION - AFV Refueli - Willamette I - Non-AFV ac - Afv acquisit - All acquisit - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu - LDV - MDV - Total AFVs in - CNG bi-fuel - E85 FFV - Total - Require gra - Achieve inc LDV turnove - Assume ave - Assume ave - Mew LDV - Gall LDV - New gal used - Gal saved in - Gal Saved Cu - Total qal save - Increased vi - More use of - Assume ove - Assume ove	IS - VIDS ng access (x ' oot in MSA quisition rates assumed to in rates assumed to rassumed to rassumed to rassumed to rassumed to rassumed to rassumed to use Cl  2000 Total 36  Service in FY 60 60 120  FY01 = 0.5 FY02 = 1.0 FY03 = 2.0 FY03 = 2.0 FY04 = 2.5 FY05 = 3.0 FY05 = 3.0 FY05 = 3.0 FY05 = 3.0 FY06 = 3.0 FY07 = 3.0 FY08 = 3.0 FY09 =	FUEL DISPL 29.172  15 miles) = ???  s assumed sam med 75% for F to be LDV be five years 9 purchased (5 f 32074/20 f  AFV 6  72005  AFV 6  72005  Temps increase mpg increase m	e as FY2001 Y2001 thru Fy2 0% CNG: 50%   60 GGE FFVs assume  Total AF Us in FY 2005   7200 7200 14400 ent with FY02 a  ection of vehicl s 2672 mi/yr bar FY03 8 143 1143 928 1821  LDV fleet GGE	E85)  d 75% E85 use  2001 Total 32  see (GGE)  de types, use of 100 gal/s  ged on 160 gal/s  4888	AFV 24  AFV Refueli Infra 250000 32500  hybrids rr and avg 16.7 FY04 8 139 1113	2002 Total 32 inq FY05 8 136 1085 1023	AFV 24 FY01 2880	2003 Total 32 FY02 5760	AFV 24 FY03 8640	Total 32 FY04 11520	FY05	Total
Diesel (gal) 140.821  2. AFV A  3. Fuel E	B20 USE (gal 143.567  CQUISITION - AFV Refueli - Willamette I - Non-AFV acquisit - All acquisit	IS - VIDS ng access (< 'oo' cot in MSA quisition rate: assumed for assumed for assumed for assumed for assumed to use City of the last of	FUEL DISPL 29.172  15 miles) = ???  s assumed sam imed 75% for F1 to be LDV be five years 9 purchased (5 for F2) 6 a 2071/200 = 1 NG 75% of time:  AFV 6  72005  AFV 6  72005  Timing FE consists mpg increase mpg in	e as FY2001 Y2001 thru Fy2 0% CNG; 50%   60 GGE FFVs assume  Total AF Us in FY 2005   7200 14400 ent with FY02 a  ection of vehicl 2 2672 mi/yr ba: FY03 8 143 1143 928 1821  LDV fleet GGE	E85)  d 75% E85 use  2001 Total 32  see (GGE)  de types, use of 100 gal/s  ged on 160 gal/s  4888	AFV 24  AFV Refueli Infra 250000 32500  hybrids rr and avg 16.7 FY04 8 139 1113	2002 Total 32 ing FY05 8 136 1085 1023 3837	AFV 24  FY01 2880 1051 4888 1051 4888 1051 4888 1051 4888 1051 1051 1051 1051 1051 1051 1051 1	2003 Total 32 FY02 5760	AFV 24  FY03 8640	Total 32 FY04 11520 FY05	FY05	Total
Diesel (gal) 140.821  2. AFV A	B20 USE (gal 143.567  CQUISITION AFV Refueli Willameter Non-AFV acquisit - All ac	IS - VIDS ng access (< 'oo' cot in MSA quisition rate: assumed for assumed for assumed for assumed for assumed to use City of the last of	FUEL DISPL 29.172  15 miles) = ???  s assumed sam med 75% for F to be LDV be five years 9 purchased (5' = 32074/200 = 1 NG 75% of time;  AFV 6  2005  AFV 6  2005  AFV 6  2005  AFV 10 mine increase mpg	e as FY2001 Y2001 thru Fy2 0% CNG; 50%   60 GGE FFVs assume  Total AF Us in FY 2005   7200 14400 ent with FY02 a  ection of vehicl 2 2672 mi/yr ba: FY03 8 143 1143 928 1821  LDV fleet GGE	E85)  d 75% E85 use  2001 Total 32  see (GGE)  de types, use of 100 gal/s  ged on 160 gal/s  4888	AFV 24  AFV Refueli Infra 250000 32500  hybrids rr and avg 16.7 FY04 8 139 1113	2002 Total 32 sing FY05 8 136 1085 1023 3837	AFV 24  FY01  2880  1051 4688	2003 Total 32 FY02 5760	AFV 24 FY03 8640	Total 32 FY04 11520	FY05	Total

OVERALL PETROL FUEL	REDUCTIONS FOR BPA-WILLAMETTE STRATEGY

STRATEGY		FUEL SAVED
Element	(GGE)	
1	29,172	
2	14400	
3	4888	
4	3,872	
TOTAL	52,331	

# **BROOKHAVEN LAB**

TOTAL 29164

BROOKHAVEN	LAB												
TOTAL FUEL USE													
-	1999 (GAL)	GGE	1999 NON-R	OAD GGE	GAL	1999 EXEMP	T	TOTAL GGE	2005 GOAL GGE REDUCT	=			
GASOL DIESEL	137,514 17,233	137,514 19,766	17,233	19,766	8335	8335		129,179	_	_			
TOTAL	11(200	157,280	11(200	19,766		8,335		129,179	25,836				
FLEET DATA -VIDS										_			
	1999 INVENTORY	NEW TOTAL	NEW AFV	2000 INVENTORY	NEW TOTAL	NEW AFV	2001 INVENTORY	NEW TOTAL	NEW AFV	<del>_</del>			
LDV MDV	244 41	21	9	240	20	5	238	9	9				
HDV EXEMPT	3								_				
AFV	9								_				
FLEET FUEL ECONO	MY (NEW	ACQUISITION NECTOR	ONS)										_
Vehicle Type	Model	Cylinders	Drive	1999 Acquisitions	Fuel Econom	ny Info Hwy FE	Combined FE			_			
Make Ford	MINICOMPAC	T	Dilve	0	CILYFE	⊓WYF⊑	26	0	_				
Ford	SUBCOMPACT COMPACT	1		0	20.3	28.5	33 23	0	_				
	MIDSIZE LARGE			2	19.7 18	29 25	23 21	0 0.097111111	_				
	TWO-SEATER SMALL P/U	?		6	16.1	20.2	0 18	0 0.33863231					
	LARGE P/U SMALL VAN				14.3 15.5	19.1 20.7	16 17	0					
	LARGE VAN			4	14.2	19.1	16	0.249170415					
					Baseline Ave			17.5	_				
					FY2002 FE G FY2005 FE G			18.5 20.5	_				
				y category bas	ed on FY 1999 I	New GSA Lease	ed Vehicles for D	OE fleet					
-	and fleet fue	el economy gui	de							_			
STRATEGY								_	_				
1. BIODIESI	EL USE												
		has MDV & HD sel use remains		ugh FY2005								_	
	- Assume tota	al conversion to	B20 by FY200	15								_	
FY2005	FY2005		EQUIV FY20			FY01	FY02	FY03	FY04	FY05			
<u>Diesel (gal)</u> 17,233	B20 USE (gal) 17,569		FUEL DISPL 3,570	(GGE)		3,570	3,570	3,570	3,570	3,570	_		
2. AFV ACC	QUISITIONS												
	- AFV Refuelii - Brookhaven	ng access (< 15	miles) = LPG	(private)									
	- Non-AFV acc	quisition rates		as FY2000; AF	V acquisition at	t 75% per EPAC	СТ						
	- LDV turnove	er assumed to b	e five years	00/ CNC- F00/ F	05) and intensic								
	- Assume MD/	/HDV 7.0 mpg a	vg and 6566 m	i/yr avg (DOE D	85) and intervie Databook for Fed	deral fleets)							
	- Avg annual I	LDV fuel use =	5,500/14 = 393	GGE		r data; avg fue	l economy of 14	mpg based on	fleet derived es	timate_			
	- Bi-fuel assu	med to use CN	3 75% of time;	FFVs assumed	75% E85 use								
		2000 Total	AFV	2001 Total	AFV	2002 Total	AFV	2003 Total	AFV	2004 Total	AFV	2005 Total	AFV
	LDV MDV	20	5	20	15	20	15	20	15	20	15	20	15
	HDV						AFV Infra						
			005 Total AF F	uel Use (GGE)	in FY2005		Cost (\$)		FY01	FY02	FY03	FY04	FY05
	CNG bi-fuel E85 FFV	75 0		22106 0			480000 0	Quote from F					
	Total	75		22106		_	480000		4421	8842	13264	17685	22106
3. Fuel Eco	nomy Increas		n FF consiste	nt with FY02 an	d EV05 goals			_					
	- require grac	- FY01 = 0.5 n	npg increase	iii wiai i i oz aii	a i i i oo godis					_			
		- FY02 = 1.0 n - FY03 = 2.0 n	npg increase										
		- FY04 =2.5 m - FY05 = 3.0 n	npg increase										
	- LDV turnove	er assumed to b	e five vears		types, use of h						_		
	- Assume ave	rage new LDV i	n 2000 travels	5,500 mi/yr w	ith avg 17.5 mp	g				_			
	New LDV	FY01 5	FY02 5	FY03 5	FY04 5	FY05 5							
	gal/LDV	382	371	352	344	335							
	New gal used Gal saved in I	FY	1857 57	1762 108	1718 203247289	<u>1676</u>							
	Gal Saved Cu		57	165	368	615	904						
	Total gal save				904	GGE	_						
4. Fleet Effi	ciency Impro							_					
-	- Increased ve	ehicle loads					_						
	- More use of - Assume ove	rall two percen	t reduction in	LDV fleet GGE f	rom baseline						<u> </u>		
	Covered		Assumed 2%			FY01	FY02	FY03	FY04	FY05			
	Baseline GGE 129,179		Savings (GG 2,584			516.72	1,033.43	1,550.15	2,066.86	2,583.58			
OVERALL PETROL FUE		NS EOD BD	OKHVAEN	STDATEGY									
OVERALL PETRUL PUB	L NEDUCTIO	NO PUR BR	JORHAVEN	UINAIEUI									
STRATEGY	,	FUEL SAVE	-D										
OPTION		(GGE)								_	_		
1		3,570								_			
2 3		22106											
		904											
4		2,584 2,0164											

# Fermilab

OTAL FUEL USE	4000		4000 11011	OAD		4000 515	DT.		2005 0 5	_				
	1999 (GAL)	GGE	1999 NON-R	GGE	GAL	1999 EXEM GGE	PT	TOTAL GGE	2005 GOAL GGE REDUC	<u>T</u>				
GASOL DIESEL	108,989 31,266	108,989 35,862			0	0		108,989 35,862	=					
TOTAL		144,851		-		-		144,851	28,970					
LEET DATA -VIDS	1999			2000			2001			_				
LDV		NEW TOTAL	NEW AFV	INVENTORY 125	NEW TOTAL	NEW AFV	INVENTORY 125	NEW TOTAL	NEW AFV					
MDV	81	9	3	81	9	9	81	9	9					
HDV AFV	16 19			16			16		_					
LDV	GASOL 114	DIESEL 1	EXEMPT 0						_					
MDV HDV	0	81 16							_					
LEET FUEL ECONO	OMY (NEW	ACQUISIT	IONS) - VID	s										
Vehicle Type		7.0 40.0		1999	Fuel Econon	ny Info								
Make Ford	Model	Cylinders	Drive	Acquisitions 0	City FE	Hwy FE	Combined FE		_	_				
Ford	MINICOMPA SUBCOMPA	CT		0			26 33	0						
	COMPACT MIDSIZE			0	20.3 19.7	28.5 29	23 23	0						
	LARGE TWO-SEATE	:R		0	18	25	21 0	<u>0</u> 0						
	SMALL P/U LARGE P/U			0	16.1 14.3	20.2 19.1	18 16	<u>0</u> 0						
	SMALL VAN LARGE VAN			0	15.5 14.2	20.7 19.1	17 16	<u>0</u> 0						
					Baseline Ave	erage FE			<u></u>					
					FY2002 FE G FY2005 FE G	Goal		#VALUE!	_					
	* Average fu	el economy val	lues estimated b	oy category base			ed Vehicles for I							
	and fleet fu	iel economy gu	uide	,								_		
TRATEGY			-	-			-		-	-				
1. BIODIES														
		esel use remair	ns constant thro								_			
		tal conversion	to B20 by FY200											
FY2005 Diesel (gal)	FY2005 B20 USE (ga	I)	FUEL DISPL	05 (GGE)		FY01	FY02	FY03	FY04	FY05				
31,266	31,876		6,477			6,477	6,477	6,477	6,477	6,477				
2. AFV ACC	QUISITIONS		I5 miles) = CNG	on-site; LPG (pr	rivato)									
	- FERMI is in	MSA		as FY2001; AF		4 759/ EBACT								
	<ul> <li>LDV turnov</li> </ul>	er assumed to	be five years				*1*							
	- Avg annua	LDV fuel use =	= 108989/(133-19	t want to use on 0) = 956 GGE	-site CNG stati	on: E85 in illin	OIS							
	- FFVS assu	med 75% E85 u	se											
		2000		2001		2002		2003		2004		2005		_
		Total	AFV	Total	AFV	Total	AFV	Total	AFV	Total	AFV	Total	AFV	
	MDV	Total 24	AFV 24	Total 26	AFV 20	Total 26	AFV 20		AFV 20	Total 26	AFV 20		AFV 20	
	MDV HDV	24	24		20 Total AF Fue	26 el Use		Total 26 AFV Infra		26	20	Total 26	20	<u>=</u>
	MDV HDV Total AFVs i	24 n Service in FY	24		Total AF Fue in FY 2005 (C	26 el Use		AFV Infra (\$)				Total		FY0
	MDV HDV	24	24		20 Total AF Fue	26 el Use		Total 26 AFV Infra		26	20	Total 26	20	
	MDV HDV Total AFVs i E85 FFV Total	24 n Service in FY 100 100	24		Total AF Fue in FY 2005 (C	26 el Use		AFV Infra (\$)		26 FY01	20 FY02	Total 26 FY03	20 FY04	
3. Fuel Ecc	MDV HDV Total AFVs i E85 FFV Total	n Service in FY  100  100	24	26	Total AF Fue in FY 2005 (C 71700 71700	26 el Use		AFV Infra (\$)		26 FY01	20 FY02	Total 26 FY03	20 FY04	
3. Fuel Eco	MDV HDV Total AFVs i E85 FFV Total	n Service in FY  100  100	24		Total AF Fue in FY 2005 (C 71700 71700	26 el Use		AFV Infra (\$)		26 FY01	20 FY02	Total 26 FY03	20 FY04	
3. Fuel Ecc	MDV HDV Total AFVs i E85 FFV Total  nonomy Increa	24  n Service in FY  100  100  asses  E is zero since  FY01	24  2005  did not buy any FY02	non-AFV LDVs FY03	Total AF Fue in FY 2005 (C 71700 71700 in '1999' FY04	26 H Use GGE)		AFV Infra (\$)		26 FY01	20 FY02	Total 26 FY03	20 FY04	
3. Fuel Eco	MDV HDV  Total AFVs i  E85 FFV Total  nonomy Increa  - Baseline FI  New LDV gal/LDV	n Service in FY 100 100 ases E is zero since FY01 6 #VALUE!	24 2005  did not buy any FY02 6 #VALUE!	non-AFV LDVs FY03 6 #VALUE!	Total AF Fue in FY 2005 (0 71700 71700 71700 FY04 6 #VALUE!	26 H Use GGE)  FY05 6 #VALUE!		AFV Infra (\$)		26 FY01	20 FY02	Total 26 FY03	20 FY04	
3. Fuel Eco	MDV HDV  Total AFVs i  E85 FFV Total  noomy Increa  - Baseline FI	100 100 100 100 100 100 100 100 100 100	24  2005  did not buy any FY02 6	non-AFV LDVs FY03	71700 71700 71700 71700 71700 FY04 6	26 el Use GGE)  FY05 6		AFV Infra (\$)		26 FY01	20 FY02	Total 26 FY03	20 FY04	
3. Fuel Eco	MDV HDV Total AFVs i E85 FFV Total  Dnomy Increa - Baseline FI  New LDV qal/LDV New qal use	100 100 100 ases E is zero since: FY01 6 #VALUE! d #VALUE! FY	24 2005  did not buy any FY02 6 #VALUE!	non-AFV LDVs FY03 6 #VALUE!	Total AF Fue in FY 2005 (0 71700 71700 71700  FY04 6 #VALUE!	26 el Use GGE)  FY05 6 #VALUE!	20	AFV Infra (\$)		26 FY01	20 FY02	Total 26 FY03	20 FY04	
3. Fuel Ecc	MDV HDV Total AFVs i E85 FFV Total Donomy Increa - Baseline FI New LDV qal/LDV New qal use Gal Saved C	n Service in FY  100 100 100 100 100 100 100 100 100 1	24 2005  did not buy any FY02 6 #VALUE!	non-AFV LDVs FY03 6 #VALUE!	Total AF Fue in FY 2005 (C 71700 71700  in '1999' FY04 6 #VALUE! #VALUE! #VALUE!	26 Il Use GGE)  FY05 6 #VALUE! #VALUE!	20	AFV Infra (\$)		26 FY01	20 FY02	Total 26 FY03	20 FY04	
3. Fuel Eco	MDV HDV Total AFVs i E85 FFV Total Donomy Increa - Baseline FI New LDV gal/LDV New gal use Gal saved in	n Service in FY  100 100 100 100 100 100 100 100 100 1	24 2005  did not buy any FY02 6 #VALUE!	non-AFV LDVs FY03 6 #VALUE!	Total AF Fue in FY 2005 (0 71700 71700 71700  FY04 6 #VALUE!	26 el Use GGE)  FY05 6 #VALUE!	20	AFV Infra (\$)		26 FY01	20 FY02	Total 26 FY03	20 FY04	
3. Fuel Ecc	MDV HDV Total AFVs i E85 FFV Total Donomy Increa - Baseline FI New LDV qal/LDV New qal use Gal Saved C	n Service in FY  100 100 100 100 100 100 100 100 100 1	24 2005  did not buy any FY02 6 #VALUE!	non-AFV LDVs FY03 6 #VALUE!	Total AF Fue in FY 2005 (C 71700 71700  in '1999' FY04 6 #VALUE! #VALUE! #VALUE!	26 Il Use GGE)  FY05 6 #VALUE! #VALUE!	20	AFV Infra (\$)		26 FY01	20 FY02	Total 26 FY03	20 FY04	
	MDV HDV Total AFVs i E85 FFV Total Donomy Increa - Baseline FI New LDV qal/LDV New qal use Gal Saved C	n Service in FY  100 100 100 100 100 100 100 100 100 1	24 2005  did not buy any FY02 6 #VALUE!	non-AFV LDVs FY03 6 #VALUE!	Total AF Fue in FY 2005 (C 71700 71700  in '1999' FY04 6 #VALUE! #VALUE! #VALUE!	26 Il Use GGE)  FY05 6 #VALUE! #VALUE!	20	AFV Infra (\$)		26 FY01	20 FY02	Total 26 FY03	20 FY04	
	MDV HDV HDV Total AFVs i E85 FFV Total Dnomy Increa - Baseline Fi New LDV gal/LDV New gal use Gal saved in Gal Saved C Total gal save iciency Impr - Reduced vi	n Service in FY  100 100 100 100 100 100 100 100 100 1	24 2005  did not buy any FY02 6 #VALUE!	non-AFV LDVs FY03 6 #VALUE!	Total AF Fue in FY 2005 (C 71700 71700  in '1999' FY04 6 #VALUE! #VALUE! #VALUE!	26 Il Use GGE)  FY05 6 #VALUE! #VALUE!	20	AFV Infra (\$)		26 FY01	20 FY02	Total 26 FY03	20 FY04	
	MDV HDV HDV Total AFVs i E85 FFV Total  - Baseline FI New LDV gal/LDV New gal use Gal saved in Gal Saved C  Total gal saved in iciency Impr - Reduced vi	n Service in FY  100 100 100 100 100 100 100 100 100 1	24 2005  did not buy any FY02 6 #VALUE! #VALUE!	non-AFV LDVs FY03 6 #VALUE! #VALUE!	Total AF Fue in FY 2005 (C 71700 71700 71700  FY04 6 #VALUE! #VALUE! 0	26 Il Use GGE)  FY05 6 #VALUE! #VALUE!	20	AFV Infra (\$)		26 FY01	20 FY02	Total 26 FY03	20 FY04	
	MDV HDV HDV Total AFVs i E85 FFV Total  - Baseline FI New LDV gal/LDV New gal use Gal saved in Gal Saved C  Total gal saved in iciency Impr - Reduced vi	n Service in FY  100 100 100 100 100 100 100 100 100 1	24 2005  did not buy any FY02 6 #VALUE! #VALUE!	non-AFV LDVs FY03 6 #VALUE!	Total AF Fue in FY 2005 (C 71700 71700 71700  in '1999' FY04 6 #VALUE! #VALUE! 0	26 Il Use GGE)  FY05 6 #VALUE! #VALUE!	20	AFV Infra (\$)		26 FY01	20 FY02	Total 26 FY03	20 FY04	
	MDV HDV HDV Total AFVs i E85 FFV Total Donomy Increa - Baseline Fi New LDV gal/LDV New gal use Gal saved in Gal Saved C Total gal save iciency Impr - Reduced vi - Increased vi - More use o - Assume ov	n Service in FY  100 100 100  Bases E is zero since FY01 6 #VALUE! d #VALUE! FY  umul  red in FY05 =  ovements shicle trips vehicle loads f higher FE erall two perce	24 2005  did not buy any FY02 6 #VALUE! #VALUE! #VALUE!	non-AFV LDVs FY03 6 #VALUE! #VALUE! #VALUE!	Total AF Fue in FY 2005 (C 71700 71700 71700  in '1999' FY04 6 #VALUE! #VALUE! 0	26 Il Use GGE)  FY05 6 #VALUE! #VALUE!	20	AFV Infra (\$)		26 FY01	20 FY02	Total 26 FY03	20 FY04	
	MDV HDV HDV Total AFVs i E85 FFV Total  - Baseline FI  New LDV qal/LDV New qal use Gal saved in Gal Saved C  Total qal sav  - Reduced w - Increased \ - More use o - Assume ov	n Service in FY  100 100 100  Bases E is zero since FY01 6 #VALUE! d #VALUE! FY  umul  red in FY05 =  ovements shicle trips vehicle loads f higher FE erall two perce	24 2005  did not buy any FY02 6 #VALUE! #VALUE! #VALUE!	non-AFV LDVs FY03 6 #VALUE! #VALUE! #VALUE!	Total AF Fue in FY 2005 (C 71700 71700 71700  in '1999' FY04 6 #VALUE! #VALUE! 0	26 Il Use GGE)  FY05 6 #VALUE! #VALUE!	#VALUE!	Total 26  AFV Infra (\$) 50000	20	FY01 14340	20 FY02 28680	Total 26 FY03	20 FY04	
4. Fleet Eff	MDV HDV HDV Total AFVs i E85 FFV Total - Baseline FI New LDV gal/LDV New gal use Gal saved in Gal Saved C Total qal sav iciency Impr - Reduced w - Increased o - Assume ov Covered Baseline GG 144,851	24  In Service in FY  100  100  Bees  E is zero since  FY01  6  #VALUE!  6  #VALUE!  FY  umul  ved in FY05 =  ovements  shicle trips  whicle trips  whicle rips  whicle rips  whicle rips  whicle rips  which rips	did not buy any FY02 6 #VALUE! #VALUE! #VALUE!  ant reduction in 1 Assumed 2% Savings (GG 2,897	non-AFV LDVs FY03 6 #VALUE! #VALUE! #VALUE!	Total AF Fue in FY 2005 (C 71700 71700 71700  in '1999' FY04 6 #VALUE! #VALUE! 0	26 Il Use GGE)  FY05 6 #VALUE! #VALUE!	#VALUEI	Total 26  AFV Infra (\$) 50000	FY03	FY01 14340 FY04	20 FY02 28680	Total 26 FY03	20 FY04	
	MDV HDV HDV Total AFVs i E85 FFV Total - Baseline FI New LDV gal/LDV New gal use Gal saved in Gal Saved C Total qal sav iciency Impr - Reduced w - Increased o - Assume ov Covered Baseline GG 144,851	24  In Service in FY  100  100  Bees  E is zero since  FY01  6  #VALUE!  6  #VALUE!  FY  umul  ved in FY05 =  ovements  shicle trips  whicle trips  whicle rips  whicle rips  whicle rips  whicle rips  which rips	did not buy any FY02 6 #VALUE! #VALUE! #VALUE!  ant reduction in 1 Assumed 2% Savings (GG 2,897	non-AFV LDVs FY03 6 #VALUE! #VALUE! #VALUE!	Total AF Fue in FY 2005 (C 71700 71700 71700  in '1999' FY04 6 #VALUE! #VALUE! 0	26 Il Use GGE)  FY05 6 #VALUE! #VALUE!	#VALUEI	Total 26  AFV Infra (\$) 50000	FY03	FY01 14340 FY04	20 FY02 28680	Total 26 FY03	20 FY04	
4. Fleet Eff	MDV HDV HDV Total AFVs i E85 FFV Total Dnomy Increa - Baseline FI New LDV gal/LDV New gal use Gal saved in Gal Saved C Total gal save iciency Impr - Reduces dv - Increase dv - More use o - Assume ov  Covered Baseline GG 144.851	24  In Service in FY  100  100  Bases  E is zero since. FY01 6 #VALUE! d #VALUE! FY  umul  red in FY05 =  ovements shicle trips rehicle loads f higher FE erall two perce	did not buy any FY02 6 6 #VALUE! #VALUE! #VALUE! #YALUE! #YALUE! #YALUE! #YALUE!	non-AFV LDVs FY03 6 #VALUE! #VALUE! #VALUE!	Total AF Fue in FY 2005 (C 71700 71700 71700  in '1999' FY04 6 #VALUE! #VALUE! 0	26 Il Use GGE)  FY05 6 #VALUE! #VALUE!	#VALUEI	Total 26  AFV Infra (\$) 50000	FY03	FY01 14340 FY04	20 FY02 28680	Total 26 FY03	20 FY04	
4. Fleet Eff	MDV HDV HDV Total AFVs i E85 FFV Total Dnomy Increa - Baseline FI New LDV gal/LDV New gal use Gal saved in Gal Saved C Total gal save iciency Impr - Reduces dv - Increase dv - More use o - Assume ov  Covered Baseline GG 144.851	24  In Service in FY  100  100  Bees  E is zero since  FY01  6  #VALUE!  6  #VALUE!  FY  umul  ved in FY05 =  ovements  shicle trips  whicle trips  whicle rips  whicle rips  whicle rips  whicle rips  which rips	did not buy any FY02 6 6 #VALUE! #VALUE! #VALUE! #YALUE! #YALUE! #YALUE! #YALUE!	non-AFV LDVs FY03 6 #VALUE! #VALUE! #VALUE!	Total AF Fue in FY 2005 (C 71700 71700 71700  in '1999' FY04 6 #VALUE! #VALUE! 0	26 Il Use GGE)  FY05 6 #VALUE! #VALUE!	#VALUEI	Total 26  AFV Infra (\$) 50000	FY03	FY01 14340 FY04	20 FY02 28680	Total 26 FY03	20 FY04	
4. Fleet Eff  VERALL PETROL FUE  STRATEG  OPTION  1	MDV HDV HDV Total AFVs i E85 FFV Total Dnomy Increa - Baseline FI New LDV gal/LDV New gal use Gal saved in Gal Saved C Total gal save iciency Impr - Reduces dv - Increase dv - More use o - Assume ov  Covered Baseline GG 144.851	n Service in FY  100 100 100 100 100 100 100 100 100 1	did not buy any FY02 6 6 #VALUE! #VALUE! #VALUE! #YALUE! #YALUE! #YALUE! #YALUE!	non-AFV LDVs FY03 6 #VALUE! #VALUE! #VALUE!	Total AF Fue in FY 2005 (C 71700 71700 71700  in '1999' FY04 6 #VALUE! #VALUE! 0	26 Il Use GGE)  FY05 6 #VALUE! #VALUE!	#VALUEI	Total 26  AFV Infra (\$) 50000	FY03	FY01 14340 FY04	20 FY02 28680	Total 26 FY03	20 FY04	
4. Fleet Eff  VERALL PETROL FUE  STRATEG OPTION  1 2 3	MDV HDV HDV Total AFVs i E85 FFV Total Dnomy Increa - Baseline FI New LDV gal/LDV New gal use Gal saved in Gal Saved C Total gal save iciency Impr - Reduces dv - Increase dv - More use o - Assume ov  Covered Baseline GG 144.851	n Service in FY  100 100 100 100 100 100 100 100 100 1	did not buy any FY02 6 6 #VALUE! #VALUE! #VALUE! #YALUE! #YALUE! #YALUE! #YALUE!	non-AFV LDVs FY03 6 #VALUE! #VALUE! #VALUE!	Total AF Fue in FY 2005 (C 71700 71700 71700  in '1999' FY04 6 #VALUE! #VALUE! 0	26 Il Use GGE)  FY05 6 #VALUE! #VALUE!	#VALUEI	Total 26  AFV Infra (\$) 50000	FY03	FY01 14340 FY04	20 FY02 28680	Total 26 FY03	20 FY04	
4. Fleet Eff  VERALL PETROL FUE  STRATEG  OPTION  1 2	MDV HDV HDV Total AFVs i E85 FFV Total Dnomy Increa - Baseline FI New LDV gal/LDV New gal use Gal saved in Gal Saved C Total gal save iciency Impr - Reduces dv - Increase dv - More use o - Assume ov  Covered Baseline GG 144.851	24  In Service in FY  100  100  100  In Sees  E is zero since.  FY01  6 #VALUE!  6 #VALUE!  FY  umul  ved in FY05 =  Ovements  shicle trips  whicle trips  which referred in the percent of the percent o	did not buy any FY02 6 6 #VALUE! #VALUE! #VALUE! #YALUE! #YALUE! #YALUE! #YALUE!	non-AFV LDVs FY03 6 #VALUE! #VALUE! #VALUE!	Total AF Fue in FY 2005 (C 71700 71700 71700  in '1999' FY04 6 #VALUE! #VALUE! 0	26 Il Use GGE)  FY05 6 #VALUE! #VALUE!	#VALUEI	Total 26  AFV Infra (\$) 50000	FY03	FY01 14340 FY04	20 FY02 28680	Total 26 FY03	20 FY04	

# **IDAHO NAT'L LAB**

0.4501	1999 (GAL)	GGE	1999 NON-F	GGE	GAL	1999 EXEM	MPT	TOTAL GGE	2005 GOAL GGE REDUC	<u> </u>			
GASOL DIESEL TOTAL	397,889 579,235	397,889 664,383 1,062,272		-	39558	39558 39,558		358,331 664,383 1,022,714	204,543				
ET DATA -VIDS		1(002(2)2				001000		1,022(111	20 110 10	_			
	1999 INVENTORY	NEW TOTAL	. NEW AFV	2000	NEW TOTA	L NEW AFV	2001 INVENTORY	NEW TOTAL	NEW AEV				
LDV MDV	698 15	61	47	698 15	41	25	700 15	35	20				
HDV AFV	249 125		1	249			249		_				
LDV	GASOL 573	DIESEL 3	EXEMPT 57										
MDV HDV		15 249	(assumed a	ll diesel) Il diesel)						_			
ET FUEL ECON	OMY (NEW	ACQUISIT	IONS) - VII	os									
Vehicle Type Make	e Model	Cylinders	Drive	1999 Acquisitions	Fuel Econo	omy Info Hwy FE	Combined F	E					
Ford Ford	MINICOMPAC SUBCOMPAC	T	50	0		,	26 33	0 0	_				
	COMPACT MIDSIZE			-	20.3 19.7	28.5 29	23 23	0					
	LARGE TWO-SEATE	2			18	25	21	0					
	SMALL P/U	<b>\</b>		•	16.1	20.2	18	0 0.496173983					
	SMALL VAN			8	14.3 15.5	19.1 20.7	16 17	0.171669004					
	LARGE VAN			1	14.2	19.1	16	0.062292604					
					FY2002 FE FY2005 FE	verage FE Goal		16.4 17.4 19.4	<u> </u>				
	* Average fue	el economy val	ues estimated	by category bas			sed Vehicles for						
RATEGY	and rieet fu	el economy gu	iide							_		<u> </u>	
1. BIODIES											_		
	- Idaho has H - Assume die	sel use remain	s constant thr	ough FY2005							_		
FY2005	FY2005		EQUIV FY2			FY01	FY02	FY03	FY04	FY05			
Diesel (Gal) 579,235	B20 USE (gal 590,532	)	FUEL DISP 119,991	L (GGE)		119,991	119,991	119,991	119,991	119,991			
2. AFV AC	QUISITIONS -	VIDS	5 miles) = CNO	G (govt, private).	LPG. Electric								
	- Idaho not in	MSA	assumed same										
	AFV acquisit	ion rate assun	ned 75%										
	- LDV turnove	er assumed to purchased in	be five years FY99 (90% Bi-	Fuel CNG; 10%	E85)								
	- Avg annual	LDV fuel use =	<del>: 397889/(698-</del> 1	25) = 694 GGE									
	- Bi-fuel assu	med to use CN	IG 75% of time	; FFVs assumed	1 75% E85 use								
	- Bi-fuel assu	med to use CN 2000	IG 75% of time	2001		2002	AEV	2003 Total	AEV	2004 Total	AEV	2005 Total	AEV
	- Bi-fuel assu	med to use CN	AFV 25		AFV 26		AFV 26	2003 Total 35	AFV 26	2004 Total 35	AFV 26	2005 Total 35	AFV 26
	- Bi-fuel assu	med to use CN 2000 Total	AFV	2001 Total 35	AFV 26	2002 Total	AFV 26	Total 35		Total		Total	
	- Bi-fuel assu  LDV  MDV  HDV  Total AFVs in	2000 Total 41 Service in FY	AFV 25	2001 Total 35 Total AF Fuin FY 2005 (	AFV 26 el Use	2002 Total	26	Total 35 AFV Infra (\$)	26	Total 35 FY01		Total	
	- Bi-fuel assu  LDV  MDV  HDV	2000 Total 41 Service in FY	AFV 25	2001 Total 35 Total AF Fu	AFV 26 el Use	2002 Total	AFV 26 0	Total 35 AFV Infra (\$)		Total 35 FY01	26	Total 35	<u>26</u>
3. Fuel Ecc	LDV MDV HDV Total AFVs in CNG bi-fuel E85 FFV	2000 Total 41  Service in FY 130 0 130	AFV 25	2001 Total 35 Total AF Fuin FY 2005 (in FY 2005 (in FORE)	AFV 26 el Use	2002 Total	26	Total 35 AFV Infra (\$)	26	Total 35 FY01 handle	26 FY02	Total 35 FY03	26  FY04
3. Fuel Eco	- Bi-fuel assu  LDV  MDV  HDV  Total AFVs in  CNG bi-fuel  E85 FFV  Total	med to use Ch 2000 Total 41  Service in FY 130 0 130 ses	AFV 25	2001 Total 35 Total AF Fuin FY 2005 (in FY 2005 (in FORE)	AFV 26 el Use GGE)	2002 Total 35	26	Total 35 AFV Infra (\$)	26	Total 35 FY01 handle	26 FY02	Total 35 FY03	26  FY04
3. Fuel Eco	- Bi-fuel assu  LDV  MDV  HDV  Total AFVs in  CNG bi-fuel  E85 FFV  Total	2000  Total 41  Service in FY 130 0 130 Ses dually increasi	AFV 25 2005 2005 mpg increase	2001 Total 35 Total AF Fur in FY 2005 ( 67665 0 67665	AFV 26 el Use GGE)	2002 Total 35	26	Total 35 AFV Infra (\$)	26	Total 35 FY01 handle	26 FY02	Total 35 FY03	26  FY04
3. Fuel Eco	- Bi-fuel assu  LDV  MDV  HDV  Total AFVs in  CNG bi-fuel  E85 FFV  Total	2000 Total 41  Service in FY 130 0 130 Ses  dually increasi - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0	AFV 25 2005 2005 2005 2005 2005 2005 2005	2001 Total 35 Total AF Fur in FY 2005 ( 67665 0 67665	AFV 26 el Use GGE)	2002 Total 35	26	Total 35 AFV Infra (\$)	26	Total 35 FY01 handle	26 FY02	Total 35 FY03	26  FY04
3. Fuel Eco	- Bi-fuel assu  LDV  MDV  HDV  Total AFVs in  CNG bi-fuel  E85 FFV  Total	med to use CN  2000 Total 41  Service in FY 130 0 130  Ses  dually increasi - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0	AFV 25 2005 2005 2006	2001 Total 35 Total AF Fur in FY 2005 ( 67665 0 67665	AFV 26 el Use GGE)	2002 Total 35	26	Total 35 AFV Infra (\$)	26	Total 35 FY01 handle	26 FY02	Total 35 FY03	26  FY04
3. Fuel Eco	- Bi-fuel assu  LDV MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total - Require gra  - Require gra	med to use CN	AFV 25 2005 2005 2006 2007 2007 2008 2008 2009 2009 2009 2009 2009 2009	2001 Total 35 Total AF Fur in FY 2005 ( 67665 0 67665	AFV 26 el Use GGE) ad FY05 goals	2002 Total 35	26	Total 35 AFV Infra (\$)	26	Total 35 FY01 handle	26 FY02	Total 35 FY03	26  FY04
3. Fuel Eco	- Bi-fuel assu  LDV  MDV  HDV  Total AFVs in  CNG bi-fuel  E85 FFV  Total  - Require gra  - Achieve inc.  LDV turnove		AFV 25 2005 2005 2006 2006 2007 2007 2008 2008 2008 2008 2008 2008	2001 Total 35  Total AF Fu in FY 2005 ( 67665 0 67665 ent with FY02 ar	AFV 26 el Use GGE) and FY05 goals	2002 Total 35	0	Total 35 AFV Infra (\$)	26	Total 35 FY01 handle	26 FY02	Total 35 FY03	26  FY04
3. Fuel Eco	- Bi-fuel assu  LDV  MDV  HDV  Total AFVs in  CNG bi-fuel  E85 FFV  Total  - Require gra  - Require gra  - Achieve inc - LDV turnow - Assume ave		AFV 25 2005 2005 2005 2006 2007 2008 2008 2008 2008 2008 2008 2008	2001 Total 35  Total AF Fu in FY 2005 ( 67665 0 67665 ent with FY02 ar  ection of vehicle s 11413 mi/yr ba	AFV 26 el Use GGE) and FY05 qoals e types, use of used on 694 qa FY03	2002 Total 35  hybrids  llyr and avg 16 FY04	0 0 .4 mpg	Total 35 AFV Infra (\$)	26	Total 35 FY01 handle	26 FY02	Total 35 FY03	26  FY04
3. Fuel Eco	- Bi-fuel assu  LDV  MDV  HDV  Total AFVs in  CNG bi-fuel  E85 FFV  Total  Onomy Increa  - Require gra  - Achieve inc.  - LDV turnov.  - Assume ave.  New LDV		AFV 25 2005 2005 2005 2006 2007 2008 2008 2008 2008 2008 2008 2008	2001 Total 35  Total AF Fu in FY 2005 ( 67665 0 67665 ent with FY02 ar  ection of vehicle s 11413 mi/yr ba FY02 9 655	AFV 26 el Use GGE) and FY05 qoals el types, use of used on 694 qua FY03 9 619	2002 Total 35  hybrids  FY04 9 603	26 0 	Total 35 AFV Infra (\$)	26	Total 35 FY01 handle	26 FY02	Total 35 FY03	26  FY04
3. Fuel Eco	- Bi-fuel assu  LDV  MDV  HDV  Total AFVs in  CNG bi-fuel  E85 FFV  Total  Onomy Increa  - Require gra  - Achieve inc  - LDV turnow  - Assume ave  New LDV  gal/LDV  New gal used  Gal saved in		AFV 25 2005 2005 2005 2005 2006 2006 2007 2008 2008 2008 2008 2008 2008 2008	2001 Total 35  Total AF Fu in FY 2005 ( 67665 0 67665 ent with FY02 ar  ection of vehicle s 11413 mi/yr bs FY02 9 655 5891 355	AFV 26 el Use GGE) ad FY05 goals el types, use of seed on 694 ga FY03 9 619 5572 674	2002 Total 35  hybrids  llyr and avq 16  FY04 9 603 5425 821	26 0 -4 mpq FY05 9 587 525 961	Total 35 AFV Infra (\$)	26	Total 35 FY01 handle	26 FY02	Total 35 FY03	26  FY04
3. Fuel Eco	- Bi-fuel assu  LDV  MDV  HDV  Total AFVs in  CNG bi-fuel E85 FFV  Total  onomy Increa  - Require gra  - Achieve inc  - LDV turnow - Assume ave  New LDV  gal/LDV New gal used Gal saved in Gal Saved in	2000 Total 41  Service in FY 130 0 130 Ses dually increasi - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY05 = 3.0 reased FE throrer assumed to brage new LDV	ing FE consist  ppg increase pp	2001 Total 35  Total AF Furin FY 2005 (6 67665 0 67665 )  ent with FY02 are continuous for the first state of the first state o	AFV 26 el Use GGE) and FY05 qoals e types, use of ased on 694 ga FY03 9 619 5572 674 1210	2002 Total 35  hybrids  llyr and avg 16  FY04 9 603 5425 821 2031	26 0 .4 mpq FY05 9 587 5285	Total 35 AFV Infra (\$)	26	Total 35 FY01 handle	26 FY02	Total 35 FY03	26  FY04
	- Bi-fuel assu  LDV  MDV  HDV  Total AFVs in  CNG bi-fuel  E85 FFV  Total  Onomy Increa  - Require gra  - Achieve inc  - LDV turnow  - Assume ave  New LDV  qal/LDV  New gal used  Gal saved in  Gal Saved Ct  Total gal save  ficiency Impro		AFV 25 2005 2005 2005 2005 2006 2006 2007 2008 2008 2008 2008 2008 2008 2008	2001 Total 35  Total AF Fu in FY 2005 ( 67665 0 67665 ent with FY02 ar  ection of vehicle s 11413 mi/yr bs FY02 9 655 5891 355	AFV 26 el Use GGE) ad FY05 goals el types, use of seed on 694 ga FY03 9 619 5572 674	2002 Total 35  hybrids  llyr and avq 16  FY04 9 603 5425 821	26 0 -4 mpq FY05 9 587 525 961	Total 35 AFV Infra (\$)	26	Total 35 FY01 handle	26 FY02	Total 35 FY03	26  FY04
	- Bi-fuel assu  LDV MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total - Require gra  - Require gra  - Achieve inc - LDV turnove - Assume ave  New LDV gal/LDV New gal used Gal saved in Gal Saved Cu Total gal savel	med to use CN  2000  Total  41  Service in FY 130  0  130  Ses  dually increasi  - FY01 = 0.5  - FY03 = 2.0  - FY03 = 2.5  - FY05 = 3.0  reased FE three rassumed to be rage new LDV	AFV 25 2005 2005 2005 2005 2006 2006 2007 2008 2008 2008 2008 2008 2008 2008	2001 Total 35  Total AF Fu in FY 2005 ( 67665 0 67665 ent with FY02 ar  ection of vehicle s 11413 mi/yr bs FY02 9 655 5891 355	AFV 26 el Use GGE) and FY05 qoals e types, use of ased on 694 ga FY03 9 619 5572 674 1210	2002 Total 35  hybrids  llyr and avg 16  FY04 9 603 5425 821 2031	26 0 -4 mpq FY05 9 587 525 961	Total 35 AFV Infra (\$)	26	Total 35 FY01 handle	26 FY02	Total 35 FY03	26  FY04
	- Bi-fuel assu  LDV MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total  - Require gra  - Require gra  - Achieve inc - LDV turnow - Assume ave  New LDV gal/LDV New gal used Gal saved fin Gal Saved Cu Total gal saved - Increased ve	med to use CN  2000 Total 41  Service in FY 130 0 130 Ses  dually increasi - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY04 = 2.5 - FY05 = 3.0  reased FE throer assumed to brage new LDV	AFV 25 2005 2005 2005 2005 2006 2007 2007 2008 2008 2008 2008 2008 2008	2001 Total 35  Total AF Fu in FY 2005 ( 67665 0 67665 ent with FY02 ar  ection of vehicle s 11413 mi/yr bs FY02 9 655 5891 355	AFV 26 el Use GGE) and FY05 qoals el types, use of seed on 694 ga FY03 9 619 5572 674 1210 2992	2002 Total 35  hybrids  llyr and avg 16 FY04 9 603 5425 821 2031 GGE	26 0 -4 mpq FY05 9 587 525 961	Total 35 AFV Infra (\$)	26	Total 35 FY01 handle	26 FY02	Total 35 FY03	26  FY04
	- Bi-fuel assu  LDV MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total DNOMY Increa  - Require gra  - Achieve inc - LDV turnove - Assume ave  New LDV gal/LDV New gal used Gal saved in Gal Saved Ci Total gal save - Reduced ve - Reduced ve - Reduced ve - Marsume ove Covered	med to use CN  2000  1001  100	AFV 25 2005 2005 2005 2005 2005 2006 2006 2	2001 Total 35  Total AF Furin FY 2005 (67665 0 67665 0	AFV 26 el Use GGE) and FY05 qoals el types, use of seed on 694 ga FY03 9 619 5572 674 1210 2992	2002 Total 35  hybrids  llyr and avg 16 FY04 9 603 5425 821 2031 GGE	26 0 -4 mpq FY05 9 587 525 961	Total 35 AFV Infra (\$)	26	Total 35 FY01 handle	26 FY02	Total 35 FY03	26  FY04
4. Fleet Ef	- Bi-fuel assu  LDV  MDV  HDV  Total AFVs in  CNG bi-fuel  E85 FFV  Total  - Require gra  - Require gra  - Require gra  - Achieve inc.  - LDV turnow Assume ave  New LDV  qal/LDV  New gal used Gal saved in Gal Saved Ct  Total gal saved  - Reduced ve  - Increased ve  - Increased ve  - Increased ve  - More use of - Assume over  Covered  Baseline GGI  1,022,714	med to use CN  2000 Total 41  41  130 0 130 Ses  dually increasi - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY04 = 2.5 - FY05 = 3.0  reased FE thru rage new LDV	AFV 25 2005 2005 2005 2005 2005 2006 2006 2	2001 Total 35  Total AF Furin FY 2005 (67665 0 67665 0	AFV 26 el Use GGE) and FY05 qoals el types, use of seed on 694 ga FY03 9 619 5572 674 1210 2992	2002 Total 35  hybrids  llyr and avg 16 FY04 9 603 5425 821 2031 GGE	26 0 0 -4 mpg FY05 9 587 5285 961 2992	Total 35  AFV Infra (\$) Existing LCI	NG station can l	Total 35  FY01 handle 13533	FY02  27066	Total 35 FY03	26  FY04
4. Fleet Eff	- Bi-fuel assu  LDV  MDV  HDV  Total AFVs in  CNG bi-fuel  E85 FFV  Total  - Require gra  - Require gra  - Require gra  - Achieve inc.  - LDV turnow Assume ave  New LDV  qal/LDV  New gal used Gal saved in Gal Saved Ct  Total gal saved  - Reduced ve  - Increased ve  - Increased ve  - Increased ve  - More use of - Assume over  Covered  Baseline GGI  1,022,714	med to use CN  2000 Total 41  41  130 0 130 Ses  dually increasi - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY04 = 2.5 - FY05 = 3.0 reased FE thro brage new LDV  FY05 = 1.0 FY05	AFV 25 2005 2005 2005 2005 2005 2006 2006 2	2001 Total 35  Total AF Furin FY 2005 (67665 0 67665 0	AFV 26 el Use GGE) and FY05 qoals el types, use of seed on 694 ga FY03 9 619 5572 674 1210 2992	2002 Total 35  hybrids  llyr and avg 16 FY04 9 603 5425 821 2031 GGE	26 0 -4 mpq FY05 9 587 525 961 2992	Total 35  AFV Infra (\$) Existing LCI	NG station can l	Total 35  FY01 handle 13533	FY02  27066	Total 35 FY03	26  FY04
4. Fleet Ef	- Bi-fuel assu  LDV  MDV  HDV  Total AFVs in  CNG bi-fuel  E85 FFV  Total  - Require gra  - Require gra  - Require gra  - Achieve inc.  - LDV turnow Assume ave  New LDV  qal/LDV  New gal used Gal saved in Gal Saved Ct  Total gal saved  - Reduced ve  - Increased ve  - Increased ve  - Increased ve  - More use of - Assume over  Covered  Baseline GGI  1,022,714	med to use CN  2000 Total 41  41  130 0 130 Ses  dually increasi - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY04 = 2.5 - FY05 = 3.0  reased FE thru rage new LDV	AFV 25 2005 2005 2005 2005 2005 2006 2006 2	2001 Total 35  Total AF Furin FY 2005 (67665 0 67665 0	AFV 26 el Use GGE) and FY05 qoals el types, use of seed on 694 ga FY03 9 619 5572 674 1210 2992	2002 Total 35  hybrids  llyr and avg 16 FY04 9 603 5425 821 2031 GGE	26 0 -4 mpq FY05 9 587 525 961 2992	Total 35  AFV Infra (\$) Existing LCI	NG station can l	Total 35  FY01 handle 13533	FY02  27066	Total 35 FY03	26  FY04
4. Fleet Eff  A. Fleet Eff  RALL PETROL FUEL R  STRATEGY OPTION  1	- Bi-fuel assu  LDV  MDV  HDV  Total AFVs in  CNG bi-fuel  E85 FFV  Total  - Require gra  - Require gra  - Require gra  - Achieve inc.  - LDV turnow Assume ave  New LDV  qal/LDV  New gal used Gal saved in Gal Saved Ct  Total gal saved  - Reduced ve  - Increased ve  - Increased ve  - Increased ve  - More use of - Assume over  Covered  Baseline GGI  1,022,714	med to use CN  2000  1000  1000  130  130  130  130	AFV 25 2005 2005 2005 2005 2005 2006 2006 2	2001 Total 35  Total AF Furin FY 2005 (67665 0 67665 0	AFV 26 el Use GGE) and FY05 qoals el types, use of seed on 694 ga FY03 9 619 5572 674 1210 2992	2002 Total 35  hybrids  llyr and avg 16 FY04 9 603 5425 821 2031 GGE	26 0 -4 mpq FY05 9 587 525 961 2992	Total 35  AFV Infra (\$) Existing LCI	NG station can l	Total 35  FY01 handle 13533	FY02  27066	Total 35 FY03	26  FY04
4. Fleet Eff	- Bi-fuel assu  LDV  MDV  HDV  Total AFVs in  CNG bi-fuel  E85 FFV  Total  - Require gra  - Require gra  - Require gra  - Achieve inc.  - LDV turnow Assume ave  New LDV  qal/LDV  New gal used Gal saved in Gal Saved Ct  Total gal saved  - Reduced ve  - Increased ve  - Increased ve  - Increased ve  - More use of - Assume over  Covered  Baseline GGI  1,022,714	med to use CN	AFV 25 2005 2005 2005 2005 2005 2006 2006 2	2001 Total 35  Total AF Furin FY 2005 (67665 0 67665 0	AFV 26 el Use GGE) and FY05 qoals el types, use of seed on 694 ga FY03 9 619 5572 674 1210 2992	2002 Total 35  hybrids  llyr and avg 16 FY04 9 603 5425 821 2031 GGE	26 0 -4 mpq FY05 9 587 525 961 2992	Total 35  AFV Infra (\$) Existing LCI	NG station can l	Total 35  FY01 handle 13533	FY02  27066	Total 35 FY03	26  FY04

# LAWRENCE BERKLEY NAT'L LAB

TAL FUE	GASOL	1999 (GAL)	GGE 68,393	1999 NON-R	GGE	GAL 1098	1999 EXEMP GGE 1098	PT	TOTAL GGE 67,295	GGE REDU	СТ			
	DIESEL TOTAL	68,393 37,741	43,289		_	1098	1,098		43,289	22,117				
ET DAT			111,682		-		1,096		110,584	22,117				
ET DAT	A -VIDS													_
		1999 INVENTORY		NEW AFV		Y NEW TOTA		2001 INVENTORY	NEW TOTAL					
	LDV MDV	191 56	46 4	0	194 56	44 2	22 0	194 56	38 6	20 0				
	AFV AFV	39 4	0	0	39	1	0	39	2	0				
	LDV	GASOL 187	DIESEL 0	EXEMPT 3										
	MDV HDV	0	56 39											_
-T CUC		•		GSA Leased	l Vahiala Da	4-								
II FUL		(NEW ACC	JISTI IONS) -	GSA Leaseu										_
	Vehicle Type Make	Model	Cylinders	Drive	1999 Acquisition	Fuel Econo is City FE	Hwy FE	Combined FE						
	Astro			1	16	18	17	0.059375						
	Astro Breeze			3 26	16 20	19 28	17 23	0.174177632 1.132857143					_	
	Cargo van Contour			2	15 22	21 31	17 25	0.232380952 0.079032258					_	
	Ram 1500 Windstar			1	16 15	21 23	18 18	0.055803571 0.056231884						
	Williastai							0.030231004						
						Baseline A	verage FE		21.23					
						FY2002 FE FY2005 FE	Goal		22.23 24.23					
		* Fuel econor	ny values fron	DOE fleet fuel	economy guid	de								
ATEGY														
	1. BIODIESEL	USE												_
	10 0 (10 0 1	- Law Berk ha	s MDV & HDV	fleet ns constant thro	ough FY2005									
				to B20 by FY200										
	FY 2005	FY2005		EQUIV FY20			FY01	FY02	FY03	FY04	FY05			
	Diesel (Gal) 37,741	38,477	)	FUEL DISPL 7,818	(GGE)		7,818	7,818	7,818	7,818	7,818			
		- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual	erk in MSA quisition rates ons assumed er assumed to based on 199 LDV fuel use =	be five years 9 purchased (33 = 68393/187 = 36	e as FY2001; A 3% Bi-Fuel CN 66 GGE	FV acquisition G; 33% E85; 33	= 75% EPACT							
		- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual	erk in MSA quisition rates ons assumed to rassumed to based on 199 LDV fuel use = med to use CN	s assumed same to be LDV be five years 9 purchased (33	e as FY2001; A 3% Bi-Fuel CN 66 GGE FFVs assume	FV acquisition G; 33% E85; 33	= 75% EPACT		2003		2004		2005	
		- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu	erk in MSA quisition rates ons assumed to based on 199 LDV fuel use = med to use CN 2000 Total	s assumed same to be LDV be five years 9 purchased (3: 68393/187 = 36 NG 75% of time;	e as FY2001; A 3% Bi-Fuel CN 66 GGE FFVs assume 2001 Total	FV acquisition  G; 33% E85; 33  d 75% E85 use	= 75% EPACT  % EV)  2002 Total	AFV 29	2003 Total	AFV 29	2004 Total	AFV 29	2005 Total	
		- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu	erk in MSA quisition rates ons assumed or assumed to based on 199 LDV fuel use = med to use Ch	s assumed same to be LDV be five years 9 purchased (3: 68393/187 = 36 NG 75% of time;	e as FY2001; A 3% Bi-Fuel CN 66 GGE FFVs assume 2001	G; 33% E85; 33 d 75% E85 use	= 75% EPACT % EV)	AFV 29		AFV 29		AFV 29		AFV 29
		- Lawrence B Non-AFV ac - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV	erk in MSA quisition rates ons assumed to based on 199 LDV fuel use = med to use Ch  2000 Total 44	s assumed same to be LDV be five years 9 purchased (3: 68393/187 = 36 NG 75% of time; AFV 22	e as FY2001; A 3% Bi-Fuel CN 86 GGE FFVs assume 2001 Total 38	G; 33% E85; 33 d 75% E85 use  AFV 29  lel Use	= 75% EPACT  % EV)  2002 Total	29 AFV Infra	Total	29	Total 38	29	Total 38	<u>29</u>
		- Lawrence B Non-AFV ac - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu  LDV MDV HDV HDV Total AFVs in CNG bi-fuel	erk in MSA quisition rates ons assumed in assumed to based on 199 LDV fuel use = med to use CN  2000 Total 44  Service in FY 48	s assumed same to be LDV be five years 9 purchased (3: 68393/187 = 36 NG 75% of time; AFV 22	e as FY2001; A 3% Bi-Fuel CN 56 GGE FFVs assume  2001 Total 38  Total AF Fuel in FY 2005 13135	G; 33% E85; 33 d 75% E85 use  AFV 29  lel Use	= 75% EPACT  % EV)  2002 Total	AFV Infra (\$) 0	Total		Total		Total	
		- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV EV	erk in MSA quisition rates ons assumed to sassumed to based on 19 LDV fuel use = med to use CN — 2000 Total 44 Service in FY 48 48 48	s assumed same to be LDV be five years 9 purchased (3: 68393/187 = 36 NG 75% of time; AFV 22	e as FY2001; A 3% Bi-Fuel CN 56 GGE FFVs assume 2001 Total AF Ft in FY 2005 13135 13135 17513	G; 33% E85; 33 d 75% E85 use  AFV 29  lel Use	= 75% EPACT  % EV)  2002 Total	AFV Infra (\$)	Total	29 FY01	Total 38 FY02	FY03	Total 38 FY04	
		- Lawrence B - Non-AFV ac - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel	erk in MSA quisition rates ons assumed to passed on pass	s assumed same to be LDV be five years 9 purchased (3: 68393/187 = 36 NG 75% of time; AFV 22	e as FY2001; A 3% Bi-Fuel CN 36 GGE FFVs assume 2001 Total 38 Total AF Fu in FY 2005 13135	G; 33% E85; 33 d 75% E85 use  AFV 29  lel Use	= 75% EPACT  % EV)  2002 Total	29  AFV Infra (\$) 0 32500	Total	29	Total 38	29	Total 38	<u>29</u>
	3. Fuel Econo	- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV EV Total my Increases	erk in MSA quisition rates ons assumed or assumed or assumed or assumed or 199 based on 199 LDV fuel use = med to use CN — 2000 Total 44  Service in FY 48 48 48 96	s assumed same to be LDV be five years 9 purchased (3: 68393/187 = 36 NG 75% of time; AFV 22	e as FY2001; A 3% Bi-Fuel CN 86 GGE FFVs assume 2001 Total 38 Total AF Ft in FY 2005 13135 13135 13135 13135 13753	G; 33% E85; 33 d 75% E85 use AFV 29	= 75% EPACT  % EV)  2002 Total	29  AFV Infra (\$) 0 32500	Total	29 FY01	Total 38 FY02	FY03	Total 38 FY04	
	3. Fuel Econo	- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV EV Total my Increases	erk in MSA quisition rates ons assumed to er assumed to based on 199 LDV fuel use = med to use CN 2000 Total 44  Service in FY 48 48 48 96	s assumed same to be LDV be five years 9 purchased (3: 68393/187 = 36 40 75% of time;  AFV 22 2005	e as FY2001; A 3% Bi-Fuel CN 86 GGE FFVs assume 2001 Total 38 Total AF Ft in FY 2005 13135 13135 13135 13135 13753	G; 33% E85; 33 d 75% E85 use AFV 29	= 75% EPACT  % EV)  2002 Total	29  AFV Infra (\$) 0 32500	Total	29 FY01	Total 38 FY02	FY03	Total 38 FY04	
	3. Fuel Econo	- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV EV Total my Increases	erk in MSA quisition rates ons assumed to er assumed to based on 199 LDV fuel use = med to use CN  2000 Total 44  Service in FY 48 48 48 96  - FY01 = 0.5 - FY02 = 1.0	assumed same to be LDV be five years 9 purchased (3: 68393/187 = 36 40 75% of time;  AFV 22  2005	e as FY2001; A 3% Bi-Fuel CN 86 GGE FFVs assume 2001 Total 38 Total AF Ft in FY 2005 13135 13135 13135 13135 13753	G; 33% E85; 33 d 75% E85 use AFV 29	= 75% EPACT  % EV)  2002 Total	29  AFV Infra (\$) 0 32500	Total	29 FY01	Total 38 FY02	FY03	Total 38 FY04	
	3. Fuel Econo	- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV EV Total my Increases	erk in MSA quisition rates ons assumed to rassumed to based on 199 LDV fuel use = med to use CN Total 44  Service in FY 48 48 96	sassumed samt to be LDV be five years 9 purchased (3: 68393/187 = 3f 407 5% of time; 47	e as FY2001; A 3% Bi-Fuel CN 86 GGE FFVs assume 2001 Total 38 Total AF Ft in FY 2005 13135 13135 13135 13135 13753	G; 33% E85; 33 d 75% E85 use AFV 29	= 75% EPACT  % EV)  2002 Total	29  AFV Infra (\$) 0 32500	Total	29 FY01	Total 38 FY02	FY03	Total 38 FY04	
	3. Fuel Econo	- Lawrence R - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV Total AFVs in CNG bi-fuel E85 FFV EV Total  my Increases - Require grad - Achieve inci	erk in MSA quisition rates ons assumed to sassumed to based on 19 LDV fuel use = med to use Ch = 2000 Total 44    Service in FY 48   48   48   96    - FY01 = 0.5   - FY02 = 1.0   - FY03 = 2.0   - FY04 = 2.5   - FY05 = 3.0   - FY04 = 2.5   - FY05 = 3.0   - FY05	sassumed same to be LDV be five years p purchased (3: 68393/187 = 3: NG 75% of time;  AFV 22  2005  ing FE consiste mpg increase	e as FY2001; A 3% Bi-Fuel CN 86 GGE FFVs assume 2001 Total 38 Total AF Ft in FY 2005 13135 13135 13751 43783	G; 33% E85; 33 d 75% E85 use  AFV 29  see Use (GGE)	= 75% EPACT % EV)  2002 Total 38	29  AFV Infra (\$) 0 32500	Total	29 FY01	Total 38 FY02	FY03	Total 38 FY04	
	3. Fuel Econo	- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV EV Total  my Increases - Require grad  - Achieve inc: - LDV turnove	erk in MSA  quisition rates  ons assumed to  rassumed on 199  based on 199  LDV fuel use =  med to use CN  2000  Total  44   Service in FY  48  48  96   dually increasi  - FY01 = 0.5  - FY02 = 1.0  - FY03 = 2.0  - FY04 = 2.5   - FY04 = 2.5   - FY05 = 2.0  - FY04 = 2.5   - FY05 = 2.0  - FY05 = 2.	sassumed same to be LDV be five years 19 purchased (3: 68393/187 = 3: 409 75% of time; 22 2005 2005 2005 2005 2005 2005 2005	e as FY2001; #  3% Bi-Fuel CN 86 GGE FFVs assume  2001 Total 38  Total AF Ft in FY 2005 13135 13135 17513 43783  ent with FY02 a	G; 33% E85; 33 d 75% E85 use  AFV 29  Hel Use (GGE)	= 75% EPACT % EV)  2002 Total 38	AFV Infra (\$) 0 32500 112,000	Total	29 FY01	Total 38 FY02	FY03	Total 38 FY04	
	3. Fuel Econo	- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV EV Total  my Increases - Require grad  - Achieve inc: - LDV turnove	erk in MSA  quisition rates  ons assumed to  rassumed on 199  based on 199  LDV fuel use =  med to use CN  2000  Total  44   Service in FY  48  48  96   dually increasi  - FY01 = 0.5  - FY02 = 1.0  - FY03 = 2.0  - FY04 = 2.5   - FY04 = 2.5   - FY05 = 2.0  - FY04 = 2.5   - FY05 = 2.0  - FY05 = 2.	sassumed same to be LDV be five years 19 purchased (3: 68393/187 = 3: 409 75% of time; 22 2005 2005 2005 2005 2005 2005 2005	e as FY2001; #  3% Bi-Fuel CN 86 GGE FFVs assume  2001 Total 38  Total AF Ft in FY 2005 13135 13135 17513 43783  ent with FY02 a	G; 33% E85; 33 d 75% E85 use  AFV 29  Hel Use (GGE)	= 75% EPACT % EV)  2002 Total 38	AFV Infra (\$) 0 32500 112,000	Total	29 FY01	Total 38 FY02	FY03	Total 38 FY04	
	3. Fuel Econo	- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV EV Total  Total  - Achieve inci - LDV turnove - Assume ave  New LDV	erk in MSA  quisition rates  ons assumed to  rassumed on 199  based on 199  LDV fuel use =  med to use CN  2000  Total  44   Service in FY  48  48  96   dually increasi  - FY01 = 0.5  - FY02 = 1.0  - FY03 = 2.0  - FY04 = 2.5   - FY04 = 2.5   - FY05 = 2.0  - FY04 = 2.5   - FY05 = 2.0  - FY05 = 2.	assumed same to be LDV be five years 9 purchased (3: 68393/187 = 36 40 75% of time; 46 40 40 40 40 40 40 40 40 40 40 40 40 40	e as FY2001; #  3% Bi-Fuel CN 56 GGE FFVs assume  2001 Total Total AF Ft in FY 2005 13135 137513 43783  ent with FY02 a  pertian of vehicle 7765 mi/yr ba FY02 9	G; 33% E85; 33 d 75% E85 use  AFV 29  sel Use (GGE)  and FY05 goals  le types, use of sed on 366 gal/	= 75% EPACT % EV)  2002 Total 38  hybrids fyr and avg 21.2 FY04 9	29  AFV Infra (\$) 0 32500 112,000	Total	29 FY01	Total 38 FY02	FY03	Total 38 FY04	
	3. Fuel Econo	- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV - MDV - HDV - Total AFVs in CNG bi-fuel - E85 FFV - EV - Total - Achieve inci - LDV turnove - Assume ave  New LDV gal/LDV - New LDV - New LDV - New LDV - New LDV - New gal used	erk in MSA quisition rates ons assumed to r assumed to based on 199 LDV fuel use = med to use CN  2000 Total 44  Service in FY 48 48 48 96 - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY04 = 2.5 - FY05 = 3.0 - FY06 = 3.0 - FY08 = 2.0 - FY08 = 2.0 - FY08 = 2.0 - FY08 = 2.0 - FY08 = 3.0 - FY09 = 3.0 - FY08 =	assumed same to be LDV be five years 9 purchased (3: 68393/187 = 3f 40 75% of time; 68393/187 = 36939/	e as FY2001; #  3% Bi-Fuel CN 56 GGE FFVs assume  2001 Total AF Fu in FY 2005 13135 13135 17513 43783  ent with FY02 a  FY02 9 3449 3144	G: 33% E85; 33 d 75% E85 use  AFV 29 let Use (GGE)  Ind FY05 goals  let types, use of sed on 366 qal/ FY03 9 3344 3008	= 75% EPACT % EV)  2002 Total 38  hybrids fyr and avg 21.2 FY04 9 327 2945	AFV Infra (\$) 0 32500 112,000	Total	29 FY01	Total 38 FY02	FY03	Total 38 FY04	
	3. Fuel Econo	- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV - Achieve inci - LDV turnove - Assume ave	erk in MSA (quisition rates ons assumed to rassumed to sassumed to	sassumed same to be LDV be five years 1 9 purchased (3: 68393/187 = 3: 68393/187	e as FY2001; A  3% Bi-Fuel CN  86 GGE  FFVs assume  2001  Total  38  Total AF Ft in FY 2005  13135  13135  13751  43783  ent with FY02 a  ection of vehicl  7765 mi/yr ba  FY02  9  349	G; 33% E85; 33 d 75% E85 use  AFV 29  Hel Use (GGE)  Ind FY05 goals  Le types, use of sed on 366 gal/ FY03 9 334	= 75% EPACT % EV)  2002 Total 38  hybrids (yr and avg 21.2) FY04 9 327	AFV Infra (\$) 0 32500 112,000	Total	29 FY01	Total 38 FY02	FY03	Total 38 FY04	
	3. Fuel Econo	- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV EV Total  my Increases - Require grae  - Achieve inc: - LDV turnove - Assume ave  New LDV gal/LDV New gal used Gal saved in In	erk in MSA  quisition rates  ons assumed to  rassumed to  rassumed to  sassumed to  sassumed to  sassumed to  sassumed to  sassumed to  sassumed to  2000  Total  44   Service in FY  48  48  96   - FY01 = 0.5  - FY02 = 1.0  - FY03 = 2.0  - FY04 = 2.5  - FY05 = 3.0  reased FE throward  reassumed to  rage new LDV	sassumed same to be LDV be five years 19 purchased (3: 68393/187 = 3: 409.75% of time; 22 2 2005 2005 2005 2005 2005 2005 200	e as FY2001; #  3% Bi-Fuel CN 86 GGE FFVs assume  2001 Total 38  Total AF Ft in FY 2005 13135 17513 43783  ent with FY02 a  ection of vehicle 17765 mi/vr ba FY02 9 349 3144	G; 33% E85; 33 d 75% E85 use  AFV 29  Hel Use (GGE)  He types, use of sed on 366 gal/ FY03 9 334 3008	= 75% EPACT  % EV)  2002 Total 38  hybrids  yr and avg 21.2  FY04 9 327 2945 349	AFV Infra (\$) 0 32500 112,000 112,000 FY05 9 320 2884 410	Total	29 FY01	Total 38 FY02	FY03	Total 38 FY04	
		- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Mix of AFVs - Avq annual - Bi-fuel assu  LDV MDV - MDV	erk in MSA  quisition rates  ons assumed to  based on 1  based on 1  based on 1  comment to  comment to use c  comment t	sassumed same to be LDV be five years 19 purchased (3: 68393/187 = 3: 409.75% of time; 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	e as FY2001; #  3% Bi-Fuel CN 86 GGE FFVs assume  2001 Total 38  Total AF Ft in FY 2005 13135 17513 43783  ent with FY02 a  ection of vehicle 17765 mi/vr ba FY02 9 349 3144	G; 33% E85; 33 d 75% E85 use  AFV 29  Hel Use (GGE)  He types, use of sed on 366 gal/ FY03 9 334 3008 286 514	= 75% EPACT  % EV)  2002 Total 38  hybrids  Yr and avg 21.2  FY04 9 327 2945 349 863	AFV Infra (\$) 0 32500 112,000 112,000 FY05 9 320 2884 410	Total	29 FY01	Total 38 FY02	FY03	Total 38 FY04	
		- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV -	erk in MSA  quisition rates  ons assumed to  rassumed to  based on 19  based on 19  based on 19  LDV fuel use =  med to use CN	sassumed same to be LDV be five years 19 purchased (3: 68393/187 = 3: 409.75% of time; 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	e as FY2001; #  3% Bi-Fuel CN 86 GGE FFVs assume  2001 Total 38  Total AF Ft in FY 2005 13135 17513 43783  ent with FY02 a  ection of vehicle 17765 mi/vr ba FY02 9 349 3144	G; 33% E85; 33 d 75% E85 use  AFV 29  Hel Use (GGE)  He types, use of sed on 366 gal/ FY03 9 334 3008 286 514	= 75% EPACT  % EV)  2002 Total 38  hybrids  Yr and avg 21.2  FY04 9 327 2945 349 863	AFV Infra (\$) 0 32500 112,000 112,000 FY05 9 320 2884 410	Total	29 FY01	Total 38 FY02	FY03	Total 38 FY04	
		- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu  LDV MDV -	guisition rates ons assumed to rassumed to rassumed to rassumed to rassumed to rassumed to rassumed to use CN 2000 Total 44  Service in FY 48 48 48 96  - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY04 = 2.5 i - FY04 = 2.5 i - FY05 = 1.0 - FY0	sassumed same to be LDV be five years 19 purchased (3: 68393/187 = 3: 409.75% of time; 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	e as FY2001; #  3% Bi-Fuel CN 86 GGE FFVs assume  2001 Total 38  Total AF Ft in FY 2005 13135 17513 43783  ent with FY02 a  ection of vehicle 17765 mi/vr ba FY02 9 349 3144	G; 33% E85; 33 d 75% E85 use  AFV 29  Hel Use (GGE)  He types, use of sed on 366 gal/ FY03 9 334 3008 286 514	= 75% EPACT  % EV)  2002 Total 38  hybrids  Yr and avg 21.2  FY04 9 327 2945 349 863	AFV Infra (\$) 0 32500 112,000 112,000 FY05 9 320 2884 410	Total	29 FY01	Total 38 FY02	FY03	Total 38 FY04	
		- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV - MDV - HDV - Total AFVs in CNG bi-fuel - E85 FFV - Total - Achieve inci - LDV turnove - Assume ave  New LDV gall, DV - New gal used Gal saved in Gal Saved in - Total gal save - Reduced ve - Increased ve - Reduced ve - Increased ve - More use of	erk in MSA quisition rates ons assumed to r assumed to based on 199 LDV fuel use = med to use CN  2000 Total 44  Service in FY 48 48 48 96 - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY04 = 2.5 - FY05 = 3.0 - FY04 = 2.0 - FY04 = 0.5 - FY05 = 3.0 - FY05 =	assumed same to be LDV be five years 9 purchased (3: 68393/187 = 3f 4675% of time; 68393/187 = 3675% o	e as FY2001; #  3% Bi-Fuel CN 56 GGE FFVs assume  2001 Total 38  Total AF Fu in FY 2005 13135 17513 43783  ent with FY02 a  ention of vehici 17765 mi/yr ba FY02 9 3449 3144 150 228	G: 33% E85; 33 d 75% E85 use  AFV 29  Hel Use (GGE)  He types, use of sed on 366 gal/ FY03 9 3344 3008 286 514 1273	= 75% EPACT  % EV)  2002 Total 38  hybrids  (yr and avg 21.2)  FY04 9 327 2945 349 863 GGE	AFV Infra (\$) 0 32500 112,000 112,000 FY05 9 320 2884 410	Total	29 FY01	Total 38 FY02	FY03	Total 38 FY04	
		- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Mix of AFVs - Avg annual - Bi-fuel assu  LDV - MDV - HDV - Total AFVs in CNG bi-fuel - E85 FFV - Total - Achieve inci - LDV turnove - Assume ave - Require gran  New LDV - Gall LDV - Assume ave - Total asved Cu -	erk in MSA quisition rates ons assumed to r assumed to based on 199 LDV fuel use = med to use CN  2000 Total 44  Service in FY 48 48 48 96 - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY04 = 2.5 - FY05 = 3.0 - FY04 = 2.0 - FY04 = 0.5 - FY05 = 3.0 - FY05 =	sassumed sams to be LDV be five years 9 purchased (3: 68393/187 = 36 (675% of time; 68393/187 = 30 (675% of time; 68393/187 =	e as FY2001; #  3% Bi-Fuel CN 56 GGE FFVs assume  2001 Total 38  Total AF Fu in FY 2005 13135 13135 13135 137513 43783  ent with FY02 a  ection of vehicle 17765 mi/yr ba FY02 9 349 3144 150 228  LDV fleet GGE	G: 33% E85; 33 d 75% E85 use  AFV 29  Hel Use (GGE)  He types, use of sed on 366 gal/ FY03 9 3344 3008 286 514 1273	= 75% EPACT  % EV)  2002 Total 38  hybrids  (yr and avg 21.2)  FY04 9 327 2945 349 863 GGE	AFV Infra (\$) 0 32500 112,000  112,000  mpg FY05 9 320 2884 410 1273	Total 38	FY01  8756.55	Total 38 FY02 17513.1	29 FY03 26269.65	Total 38 FY04	
		- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV - MDV MDV - M	erk in MSA quisition rates ons assumed to er assumed to based on 199 LDV fuel use = med to use CN  2000 Total 44  Service in FY 48 48 48 49 6  - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY03 = 2.0 - FY04 = 0.5 - FY05 = 3.0 reased FE thro er assumed to rage new LDV	sassumed same to be LDV be five years be the LDV be five years 9 purchased (3: 68393/187 = 3: 409.75% of time; 22 2 2005 2005 2005 2005 2005 2005 200	e as FY2001; #  3% Bi-Fuel CN 56 GGE FFVs assume  2001 Total 38  Total AF Fu in FY 2005 13135 17513 43783  ent with FY02 a  ection of vehicl 7765 mi/yr ba FY02 9 349 3144 150 228	G: 33% E85; 33 d 75% E85 use  AFV 29  Hel Use (GGE)  He types, use of sed on 366 gal/ FY03 9 3344 3008 286 514 1273	= 75% EPACT  % EV)  2002 Total 38  hybrids  (yr and avg 21.2)  FY04 9 327 2945 349 863 GGE	AFV Infra (\$) 0 32500 112,000  112,000  mpq FY05 9 320 2884 410 1273	Total 38	FY01  8756.55  FY03	Total 38 FY02 17513.1	FY05	Total 38 FY04	
	4. Fleet Efficie	- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV -	erk in MSA quisition rates ons assumed to based on 19 LDV fuel use = med to use CN — 2000 Total 44  Service in FY 48 48 48 96  dually increasi — FY01 = 0.5 — FY02 = 1.0 — FY03 = 2.0 — FY04 = 2.5 in — FY04 = 2.5 in — FY04 = 2.5 in — FY05 = 1.0  Total  dually increasi — FY05 = 1.0 — FY05 = 1.	sassumed same to be LDV be five years 19 purchased (3: 68393/187 = 3: 409 75% of time; 22 2005 2005 2005 2005 2005 2005 2005	e as FY2001; #  8 Bi-Fuel CN 86 GGE FFVs assume  2001 Total 38  Total AF Ft in FY 2005 13135 17513 43783  ent with FY02 a  ection of vehicle 17765 mi/yr ba FY02 9 3144 150 228  LDV fleet GGE 66	G: 33% E85; 33 d 75% E85 use  AFV 29  Hel Use (GGE)  He types, use of sed on 366 gal/ FY03 9 3344 3008 286 514 1273	= 75% EPACT  % EV)  2002 Total 38  hybrids  (yr and avg 21.2)  FY04 9 327 2945 349 863 GGE	AFV Infra (\$) 0 32500 112,000  112,000  mpg FY05 9 320 2884 410 1273	Total 38	FY01  8756.55	Total 38 FY02 17513.1	29 FY03 26269.65	Total 38 FY04	
TALL PE	4. Fleet Efficie	- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV -	erk in MSA quisition rates ons assumed to based on 19 LDV fuel use = med to use CN Total 44  Service in FY 48 48 48 96  - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY04 = 2.5 i FY04 = 2.5 i FY05 = 3.0 reased FE thrown and in FY05 = med in FY05	sassumed same to be LDV be five years 10 be LDV be five years 10 purchased (3: 68393/187 = 3: 409.75% of time; 10. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	e as FY2001; #  8 Bi-Fuel CN 86 GGE FFVs assume  2001 Total 38  Total AF Ft in FY 2005 13135 17513 43783  ent with FY02 a  ection of vehicle 17765 mi/yr ba FY02 9 3144 150 228  LDV fleet GGE 66	G: 33% E85; 33 d 75% E85 use  AFV 29  Hel Use (GGE)  He types, use of sed on 366 gal/ FY03 9 3344 3008 286 514 1273	= 75% EPACT  % EV)  2002 Total 38  hybrids  (yr and avg 21.2)  FY04 9 327 2945 349 863 GGE	AFV Infra (\$) 0 32500 112,000  112,000  mpq FY05 9 320 2884 410 1273	Total 38	FY01  8756.55  FY03	Total 38 FY02 17513.1	FY05	Total 38 FY04	
RALL PE	4. Fleet Efficie	- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV -	erk in MSA quisition rates ons assumed to based on 19 LDV fuel use = med to use CN — 2000 Total 44  Service in FY 48 48 48 96  dually increasi — FY01 = 0.5 — FY02 = 1.0 — FY03 = 2.0 — FY04 = 2.5 in — FY04 = 2.5 in — FY04 = 2.5 in — FY05 = 1.0  Total  dually increasi — FY05 = 1.0 — FY05 = 1.	sassumed same to be LDV be five years 10 be LDV be five years 10 purchased (3: 68393/187 = 3: 409.75% of time; 10. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	e as FY2001; #  8 Bi-Fuel CN 86 GGE FFVs assume  2001 Total 38  Total AF Ft in FY 2005 13135 17513 43783  ent with FY02 a  ection of vehicle 17765 mi/yr ba FY02 9 3144 150 228  LDV fleet GGE 66	G: 33% E85; 33 d 75% E85 use  AFV 29  Hel Use (GGE)  He types, use of sed on 366 gal/ FY03 9 3344 3008 286 514 1273	= 75% EPACT  % EV)  2002 Total 38  hybrids  (yr and avg 21.2)  FY04 9 327 2945 349 863 GGE	AFV Infra (\$) 0 32500 112,000  112,000  mpq FY05 9 320 2884 410 1273	Total 38	FY01  8756.55  FY03	Total 38 FY02 17513.1	FY05	Total 38 FY04	
RALL PE	4. Fleet Efficie	- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV -	erk in MSA quisition rates ons assumed to er assumed to based on 199 LDV fuel use = med to use CN  2000 Total 44  48 48 48 48 49 6  - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY04 = 2.0 - FY05 = 3.0 reased FE thro er assumed to rage new LDV	sassumed same to be LDV be five years 10 be LDV be five years 10 purchased (3: 68393/187 = 3: 409.75% of time; 10. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	e as FY2001; #  8 Bi-Fuel CN 86 GGE FFVs assume  2001 Total 38  Total AF Ft in FY 2005 13135 17513 43783  ent with FY02 a  ection of vehicle 17765 mi/yr ba FY02 9 3144 150 228  LDV fleet GGE 66	G: 33% E85; 33 d 75% E85 use  AFV 29  Hel Use (GGE)  He types, use of sed on 366 gal/ FY03 9 3344 3008 286 514 1273	= 75% EPACT  % EV)  2002 Total 38  hybrids  (yr and avg 21.2)  FY04 9 327 2945 349 863 GGE	AFV Infra (\$) 0 32500 112,000  112,000  mpq FY05 9 320 2884 410 1273	Total 38	FY01  8756.55  FY03	Total 38 FY02 17513.1	FY05	Total 38 FY04	
TALL PE	4. Fleet Efficie  TROL FUEL RE  STRATEGY  OPTION	- Lawrence B - Non-AFV ac - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV -	erk in MSA quisition rates ons assumed to r assumed to based on 199 LDV fuel use = med to use CN Total 44  Service in FY 48 48 48 96 - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY04 = 2.5 - FY05 = 3.0 - FY04 = 1.0 - FY05 = 3.0 -	sassumed same to be LDV be five years 10 be LDV be five years 10 purchased (3: 68393/187 = 3: 409.75% of time; 10. 19. 19. 19. 19. 19. 19. 19. 19. 19. 19	e as FY2001; #  8 Bi-Fuel CN 86 GGE FFVs assume  2001 Total 38  Total AF Ft in FY 2005 13135 17513 43783  ent with FY02 a  ection of vehicle 17765 mi/yr ba FY02 9 3144 150 228  LDV fleet GGE 66	G: 33% E85; 33 d 75% E85 use  AFV 29  Hel Use (GGE)  He types, use of sed on 366 gal/ FY03 9 3344 3008 286 514 1273	= 75% EPACT  % EV)  2002 Total 38  hybrids  (yr and avg 21.2)  FY04 9 327 2945 349 863 GGE	AFV Infra (\$) 0 32500 112,000  112,000  mpq FY05 9 320 2884 410 1273	Total 38	FY01  8756.55  FY03	Total 38 FY02 17513.1	FY05	Total 38 FY04	

# LAWRENCE LIV NAT'L LAB

ILLIAN ENG	I USF														
TOTAL FUE	L UJE	1999 (GAL)	GGE	1999 NON-RO	DAD GGE	GAL	1999 EXEMP	Т	TOTAL COF	2005 GOAL GGE REDUCT	<u>-</u>				
	GASOL	441,113	441,113	-	GGE	39574	39574		401,539	GGE REDUCT					
	DIESEL TOTAL	56,865	65,224 506.337	•	-	3,930	4,508 44.082		60,716 462,255	92,451					
FLEET DAT	A -VIDS									_	_				
		1999			2000			2001							
	LDV	INVENTORY 808	NEW TOTAL 98	NEW AFV 83	592	NEW TOTAL 118	NEW AFV 96	INVENTORY 592	NEW TOTAL 110	NEW AFV 48					
	MDV HDV	51 54	7		51 54			51 54		_					
	AFV	121 GASOL	DIESEL	EXEMPT						_					
	LDV MDV	808	0 51	21						_					
	HDV		54	7						_					
FLEET FUE	L ECONOMY	(NEW ACQ	JISITIONS) -	GSA Leased	Vehicle Data	1									-
	Vehicle Type Make	Model	Cylinders	Drive	1999 Acquisitions	Fuel Econon	ny Info Hwy FE	Combined FE	:		=				
	Ford	astro	Cymiacis	Dillec	4	16	19	17	0.232236842	_					
	TOTA	breeze			6	20	28	23 21	0.261428571						
		D1500			1	18 17	25 22	19	0.097111111 0.052807487						
		Durango F250			9	15 13	20 18	17 15	0.118333333 0.605769231						
		Lumina Ram 1500			1	20 16	30 21	24 18	0.085 0.055803571						
		Ranger Tahoe			4	18 15	23 19	20 17	0.050120773 0.241403509						
		Taurus			1	19	27	22	0.045614035						
						FY2002 FE G	oal		17.9 18.9	_					
						FY2005 FE G	oal		20.9			_			
		* Fuel econor	ny values from	DOE fleet fuel	economy guide	1									
STRATEGY	,										-				
	1. BIODIESEL	USE										_			
		- Assume die	sel use remain	s constant thro	ugh FY2005						_				
	EVANOE		ai conversion to				FY01	FY02	FY03	FY04	EVOE				
	FY2005 Diesel (gal)	FY2005 B20 USE (gal	)	FUEL DISPL	(GGE)		FTUI	5,890		20,615	FY05 20,615				
	56,865	57,974		11,780				5,090	11,780	20,615	20,615				
	2. AFV ACQU	- AFV Refueli	ng access (< 15	miles) = CNG	(gov't), LPG (pr	ivate, public)									-
		- Lawrence in	MSA												_
		- All acquisiti	ons assumed to	assumed same o be LDV	as FY2001; AF	V acquisition =	75% EPACT								-
		- Mix of AFVs	er assumed to be based on 1999	purchased (90	% Bi-Fuel CNG	; 10% E85)									-
		- Avg annual - Bi-fuel assu	LDV fuel use =	441113/(808+21	) = 532 GGE										_
			med to use CN	G 75% of time;	FFVs assumed	75% E85 use									_
			2000		2001		2002		2003		2004		2005		_
		LDV	_	AFV 96		75% E85 use  AFV 83	2002 Total 110	AFV 83	2003 Total 110	AFV 83	2004 Total 110	AFV 83	2005 Total 110	AFV 83	-
		LDV MDV HDV	2000 Total	AFV	2001 Total	AFV	Total		Total		Total		Total		-
		MDV HDV	2000 Total 118	AFV 96	2001 Total 110 Total AF Use	AFV 83	Total	83 AFV Refuelin	Total 110		Total	83	Total 110	<u>83</u> 	FY05
		MDV HDV Total AFVs in CNG bi-fuel	2000 Total 118 Service in FY2 374	AFV 96	2001 Total 110 Total AF Use (GGE) in FY0 149027	AFV 83	Total	AFV Refuelin Infra (\$) \$850,000	Total 110 g		Total 110 FY01	83 FY02	Total		FY05
		MDV HDV Total AFVs in	2000 Total 118	AFV 96	2001 Total 110 Total AF Use (GGE) in FY0	AFV 83	Total	AFV Refuelin	Total 110	83	Total 110 FY01	83 FY02	Total 110	<u>83</u> 	FY05 165585
	3. Fuel Econo	MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total	2000 Total 118 Service in FY2 374 42	AFV 96	2001 Total 110 Total AF Use (GGE) in FY0 149027 16559	AFV 83	Total	AFV Refuelin Infra (\$) \$850,000 \$50,000	Total 110 g	83	Total 110 FY01 ded under Al	83 FY02 FV User	Total 110 FY03	83  FY04	-
	3. Fuel Econo	MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total omy Increases	2000 Total 118 Service in FY2 374 42 415	AFV 96	2001 Total 110 Total AF Use (GGE) in FY0 149027 14559 165585	AFV 83	Total	AFV Refuelin Infra (\$) \$850,000 \$50,000	Total 110 g	83	Total 110 FY01 ded under Al	83 FY02 FV User	Total 110 FY03	83  FY04	-
	3. Fuel Econo	MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total omy Increases	2000 Total 118  Service in FY2 374 42 415  dually increasir - FY01 = 0.5 f	AFV 96 2005	2001 Total 110 Total AF Use (GGE) in FY0 149027 14559 165585	AFV 83	Total	AFV Refuelin Infra (\$) \$850,000 \$50,000	Total 110 g	83	Total 110 FY01 ded under Al	83 FY02 FV User	Total 110 FY03	83  FY04	-
	3. Fuel Econo	MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total omy Increases	2000 Total 118  Service in FY2 374 42 415  dually increasir - FY01 = 0.5 r - FY02 = 1.0 r - FY03 = 2.0 r	AFV 96	2001 Total 110 Total AF Use (GGE) in FY0 149027 14559 165585	AFV 83	Total	AFV Refuelin Infra (\$) \$850,000 \$50,000	Total 110 g	83	Total 110 FY01 ded under Al	83 FY02 FV User	Total 110 FY03	83  FY04	-
	3. Fuel Econo	MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total omy Increases	2000 Total 118 Service in FY2 374 42 415 dually increasis	AFV 96 0005 ng FE consister mpg increase mpg increase mpg increase mpg increase	2001 Total 110 Total AF Use (GGE) in FY0 149027 14559 165585	AFV 83	Total	AFV Refuelin Infra (\$) \$850,000 \$50,000	Total 110 g	83	Total 110 FY01 ded under Al	83 FY02 FV User	Total 110 FY03	83  FY04	-
	3. Fuel Econo	MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total omy Increases - Require gra - Achieve inc	2000 Total 118  Service in FY2 374 42 415  -FY01 = 0.51 -FY03 = 2.0 r -FY04 = 2.5 n -FY04 = 2.5 n -FY05 = 5.5 r -F	AFV 96 2005 2005 2007 2007 2007 2007 2007 2007	2001 Total 110  Total AF Uses (GGE) in FY0 149027 149027 16559 165585	AFV 83	Total 110	AFV Refuelin Infra (\$) \$850,000 \$50,000	Total 110 g	83	Total 110 FY01 ded under Al	83 FY02 FV User	Total 110 FY03	83  FY04	-
	3. Fuel Econo	MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total my Increases - Require gra  - Achieve inc - LDV turnove	2000 Total 118  Service in FY2 374 42 415  dually increasir  - FY01 = 0.5 r - FY02 = 1.0 r - FY04 = 2.5 m - FY05 = 3.0 r - FY05 = 5.0 r reased FE throorer assumed to l	AFV 96 0005 0005 0005 0005 0005 0005 0005 0	2001 Total 110  Total AF Use (GGE) in FY0 149027 149027 16559 165595 at with FY02 an	AFV 83 55 d FY05 goals	Total 110	AFV Refuelin Infra (\$) \$850,000 \$900,000	Total 110 g	83	Total 110 FY01 ded under Al	83 FY02 FV User	Total 110 FY03	83  FY04	-
	3. Fuel Econo	MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total my Increases - Require gra - Achieve inc LDV turnow - Assume ave	2000 Total 118  Service in FY2 374 42 415  dually increasir  - FY01 = 0.5 r - FY02 = 1.0 r - FY04 = 2.5 m - FY05 = 3.0 r - FY05 = 5.0 r reased FE throorer assumed to l	AFV 96 2005 2005 2005 2007 2007 2007 2007 2007	2001 Total 110  Total AF Use (GGE) in FY0 149027 16559 165585  at with FY02 an	AFV 83 15 d FY05 goals types, use of hed on 532 gal/y	Total 110  ybrids r and avg 17.9 r	83  AFV Refuelin Infra (\$) \$850,000 \$50,000 \$900,000	Total 110 g	83	Total 110 FY01 ded under Al	83 FY02 FV User	Total 110 FY03	83  FY04	-
	3. Fuel Econo	MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total my Increases - Require gra - Achieve inc - LDV turnove - Assume ave	2000 Total 118  1. Service in FY2 374 42 415  - FY01 = 0.5 r - FY03 = 2.0 r - FY03 = 2.0 r - FY05 = 3.0 r reased FE throir assumed to b	AFV 96 2005 2005 2005 2007 2007 2007 2007 2007	2001 Total 110  Total AF Use (GGE) in FY0 149027 16559 165585  at with FY02 an  ction of vehicle 9,514 mi/yr bas FY02 27 504	AFV 83 15 d FY05 goals types, use of hed on 532 gal/y FY03 27 479	ybrids r and avg 17.9 r FY04 27 467	83  AFV Refuelin Infra (\$)     \$850,000     \$50,000     \$900,000  FY05 27 456	Total 110 g	83	Total 110 FY01 ded under Al	83 FY02 FV User	Total 110 FY03	83  FY04	-
	3. Fuel Econo	MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total my Increases - Require gra  - Achieve inc - LDV turnow - Assume ave  New LDV gal/LDV New gal used Gal saved in	2000 Total 118  Service in FY2 374 42 415  dually increasir - FY01 = 0.5 r - FY02 = 1.0 r - FY04 = 2.5 r - FY05 = 3.0 r - FY05 = 3.0 r - FY04 = 2.5 r - FY08 = 0.0 r - FY08 = 0.0 r - FY09	AFV 96  005  ong FE consister ong increase o	2001 Total 110  Total AF Use (GGE) in FY0 149027 16559 165585 at with FY02 an  ction of vehicle 9,514 mi/vr bas FY02 27 504 13606	AFV 83 b5 d FY05 goals types, use of hed on 532 gal/y FY03 27 479 12921 1443	70tal 110 ybrids r and avg 17.9 r FY04 27 467 12604	83  AFV Refuelin Infra (\$)     \$850,000     \$900,000  FY05 27 456 12303 2061	Total 110 g	83	Total 110 FY01 ded under Al	83 FY02 FV User	Total 110 FY03	83  FY04	-
	3. Fuel Econo	MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total my Increases - Require gra  - Achieve inc - LDV turnow - Assume ave New LDV qal/LDV New gal used Gal saved in Gal Saved Cu	2000 Total 118  Service in FY2 374 42 415  - FY01 = 0.5 r - FY02 = 1.0 r - FY04 = 2.5 r - FY05 = 3.0 r - FY04 = 2.5 r - FY08 = 0.0 r - FY08 = 0.0 r - FY09 =	AFV 96 2005 2005 2007 2008 2008 2008 2008 2008 2008 2008	2001 Total 110  Total AF Use (GGE) in FY0 149027 16559 165585  at with FY02 an  ction of vehicle 9,514 mi/yr bas FY02 27 504	AFV 83 4 FY05 goals types, use of heed on 532 gal/y FY03 27 479 12921 1443 2589	ybrids r and avq 17.9 r FY04 27 467 12604 1760 4349	83  AFV Refuelin Infra (\$). 8850,000 \$50,000 \$900,000  FY05 27 456 12303	Total 110 g	83	Total 110 FY01 ded under Al	83 FY02 FV User	Total 110 FY03	83  FY04	-
	-	MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total my Increases - Require gra - Achieve inc - LDV turnow - Assume ave New LDV qal/LDV New gal used Gal saved in Gal Saved Ct Total qal save	2000 Total 118  Service in FY2 374 42 415  dually increasi - FY01 = 0.5 r - FY02 = 1.0 r - FY04 = 2.5 n - FY04 = 2.5 n - FY05 = 3.0 r - FY04 = 2.5 n - FY05 = 3.0 r - FY05	AFV 96  1005  1005  1007	2001 Total 110  Total AF Use (GGE) in FY0 149027 16559 165585 at with FY02 an  ction of vehicle 9,514 mi/vr bas FY02 27 504 13606	AFV 83 b5 d FY05 goals types, use of hed on 532 gal/y FY03 27 479 12921 1443	70tal 110 ybrids r and avg 17.9 r FY04 27 467 12604	83  AFV Refuelin Infra (\$)     \$850,000     \$900,000  FY05 27 456 12303 2061	Total 110 g	83	Total 110 FY01 ded under Al	83 FY02 FV User	Total 110 FY03	83  FY04	-
	-	MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total my Increases - Require gra  - Achieve inc - LDV turnow - Assume ave New LDV qal/LDV New gal used Gal saved in Gal Saved Cu	2000 Total 118  Service in FY2 374 42 415  -FY01 = 0.5 r -FY03 = 2.0 r -FY05 = 3.0 r -FY05 = 3.0 r reased FE throrer assumed to l rarge new LDV	AFV 96  1005  1005  1007	2001 Total 110  Total AF Use (GGE) in FY0 149027 16559 165585 at with FY02 an  ction of vehicle 9,514 mi/vr bas FY02 27 504 13606	AFV 83 4 FY05 goals types, use of heed on 532 gal/y FY03 27 479 12921 1443 2589	ybrids r and avq 17.9 r FY04 27 467 12604 1760 4349	83  AFV Refuelin Infra (\$)     \$850,000     \$900,000  FY05 27 456 12303 2061	Total 110 g	83	Total 110 FY01 ded under Al	83 FY02 FV User	Total 110 FY03	83  FY04	-
	-	MDV HDV HDV Total AFVs in CNG bi-fuel E85 FFV Total Total - Achieve inc Require gra - LDV turnove - Assume ave New LDV qal/LDV New gal used Gal saved in Gal Saved Ct Total gal save ency Improvem - Reduced ve - Reduced ve - Increased v.	2000 Total 118  1. Service in FY2 374 42 415  - FY01 = 0.5 r - FY03 = 2.0 r - FY03 = 2.0 r - FY05 = 3.0 r - FY05 = 3.0 r reased FE throir rasumed to 1 rage new LDV  FY throis = 1.0 r	AFV 96  1005  1005  1007	2001 Total 110  Total AF Use (GGE) in FY0 149027 16559 165585 at with FY02 an  ction of vehicle 9,514 mi/vr bas FY02 27 504 13606	AFV 83 4 FY05 goals types, use of heed on 532 gal/y FY03 27 479 12921 1443 2589	ybrids r and avq 17.9 r FY04 27 467 12604 1760 4349	83  AFV Refuelin Infra (\$)     \$850,000     \$900,000  FY05 27 456 12303 2061	Total 110 g	83	Total 110 FY01 ded under Al	83 FY02 FV User	Total 110 FY03	83  FY04	-
	-	MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total - Require gra - Achieve inc - LDV turnove - Assume ave - Assume ave - Assume ave - Reduced ve - Increased v More used v More used v More used v More cased v More cased v More cased v More used v	2000 Total 118  Service in FY2 374 42 415  - FY01 = 0.5 in - FY03 = 2.0 in - FY03 = 2.0 in - FY04 = 2.5 in - FY05 = 2.0 in reased FE throi er assumed to 1 erage new LDV  FY Immed in FY05 = ents hicle trips hicle loads	AFV 96  1005  1005  1007	2001 Total Total AF Use (GGE) in FY0 149027 16559 165585 at with FY02 an etion of vehicle 9,514 mi/vr bas FY02 27 504 13606 758 1146	AFV 83 15 15 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	ybrids r and avq 17.9 r FY04 27 467 12604 1760 4349	83  AFV Refuelin Infra (\$)     \$850,000     \$900,000  FY05 27 456 12303 2061	Total 110 g	83	Total 110 FY01 ded under Al	83 FY02 FV User	Total 110 FY03	83  FY04	-
	-	MDV HDV HDV Total AFVs in CNG bi-fuel E85 FFV Total my Increases - Require gra  - Achieve inc - LDV turnow - Assume ave New LDV gal/LDV New gal used Gal saved in Gal Saved Ct Total gal save ency Improvem - Reduced ve - Increased ve - More use of - Assume ov - Assume ov - Covered	2000 Total 118  118  128 374 42 415  - FY01 = 0.5 r - FY03 = 2.0 r - FY03 = 2.0 r - FY05 = 3.0 r - FY05 = 3.0 r - FY05 = 0.0 r - FY08 = 0.0 r - FY08 = 0.0 r - FY08 = 0.0 r - FY09 = 0.0 r	AFV 96  2005  2005  2005  2006  2007	2001 Total AF Use (GGE) in FYG 149027 16559 165585 at with FY02 an extion of vehicle 9,514 mi/yr bas FY02 27 504 13606 758 1146	AFV 83 15 15 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	ybrids r and avq 17.9 r FY04 27 467 12604 1760 4349	83  AFV Refuelin Infra (\$)     \$850,000     \$900,000  FY05 27 456 12303 2061	Total 110 g	83	Total 110 FY01 ded under Al	83 FY02 FV User	Total 110 FY03	83  FY04	-
	-	MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total my Increases - Require gra - Achieve inc LDV turnow - Assume ave New LDV agl/LDV New gal used Gal saved in Gal Saved Ct Total gal saved con Total gal saved con Saved	2000 Total 118  118  128 374 42 415  - FY01 = 0.5 r - FY03 = 2.0 r - FY03 = 2.0 r - FY05 = 3.0 r - FY05 = 3.0 r - FY05 = 0.0 r - FY08 = 0.0 r - FY08 = 0.0 r - FY08 = 0.0 r - FY09 = 0.0 r	AFV 96 2005 2005 2005 2007 2007 2007 2007 2007	2001 Total AF Use (GGE) in FYG 149027 16559 165585 at with FY02 an extion of vehicle 9,514 mi/yr bas FY02 27 504 13606 758 1146	AFV 83 15 15 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	ybrids r and avq 17.9 r FY04 27 467 12604 1760 4349	83  AFV Refuelin Infra (\$). \$850,000 \$50,000 \$900,000  FY05 27 456 12303 2061 6410	Total 110  g  Quote from F  Estimated	83	Total 110  FY01 ded under Al 33117	FY02 FV User 66234	Total 110 FY03	83  FY04	-
OVERALL PE	-	MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total my Increases - Require gra - Achieve inc LDV turnove - Assume ave New LDV New gal used Gal saved in Gal Saved Ct Total gal savel Course of Covered Baseline GGI 462.255	2000 Total 118  Service in FY2 374 42 415  -FY01 = 0.5 r -FY03 = 2.0 r -FY03 = 2.0 r -FY05 = 3.0 r -FY05 = 3.0 r -FY05 = 3.0 r -FY05 = br -FY05 = 1.0 r -FY0	AFV 96 1005 1005 1007 1007 1007 1007 1007 1007	2001 Total AF Use (GGE) in FY0 149027 16559 165585 at with FY02 an etion of vehicle 9,514 mi/yr bas FY02 27 504 13606 758 1146	AFV 83 15 15 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	ybrids r and avq 17.9 r FY04 27 467 12604 1760 4349	83  AFV Refuelin Infra (\$). \$850,000 \$50,000 \$900,000  Pryo5 27 456 12303 2061 6410	Total 110  g Quote from F Estimated	leet Mgr; but fur	Total 110  FY01 ded under Al 33117  FY04	FY02 V User 66234  FY05	Total 110 FY03	83  FY04	-
OVERALL PE	4. Fleet Efficie TROL FUEL RE	MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total my Increases - Require gra - Achieve inc LDV turnove - Assume ave New LDV New gal used Gal saved in Gal Saved Ct Total gal savel Course of Covered Baseline GGI 462.255	2000 Total 118  Service in FY2 374 42 415  dually increasin - FY01 = 0.5 r - FY03 = 2.0 r - FY03 = 2.0 r - FY04 = 2.5 m - FY05 = 3.0 r reased FE throner assumed to 1 rage new LDV  FY Imm ed in FY05 = ents hicle trips shicle trips shicle loads higher FE erall two percer	AFV 96 2005 2005 2005 2007 2007 2007 2007 2007	2001 Total AF Use (GGE) in FY0 149027 16559 165585 at with FY02 an etion of vehicle 9,514 mi/yr bas FY02 27 504 13606 758 1146	AFV 83 15 15 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	ybrids r and avq 17.9 r FY04 27 467 12604 1760 4349	83  AFV Refuelin Infra (\$). \$850,000 \$50,000 \$900,000  Pryo5 27 456 12303 2061 6410	Total 110  g Quote from F Estimated	leet Mgr; but fur	Total 110  FY01 ded under Al 33117  FY04	FY02 V User 66234  FY05	Total 110 FY03	83  FY04	-
OVERALL PE	4. Fleet Efficie	MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total my Increases - Require gra - Achieve inc LDV turnove - Assume ave New LDV New gal used Gal saved in Gal Saved Ct Total gal savel Course of Covered Baseline GGI 462.255	2000 Total 118  Service in FY2 374 42 415  dually increasii - FY01 = 0.5 r - FY03 = 2.0 r - FY03 = 2.0 r - FY04 = 2.5 r - FY05 = 3.0 r reased FE throi er assumed to b rage new LDV  reased in FY05 = ents higher free fight increase higher free rall two percer  E R LAWRENCE (GGE)	AFV 96 2005 2005 2005 2007 2007 2007 2007 2007	2001 Total AF Use (GGE) in FY0 149027 16559 165585 at with FY02 an etion of vehicle 9,514 mi/yr bas FY02 27 504 13606 758 1146	AFV 83 15 15 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	ybrids r and avq 17.9 r FY04 27 467 12604 1760 4349	83  AFV Refuelin Infra (\$). \$850,000 \$50,000 \$900,000  Pryo5 27 456 12303 2061 6410	Total 110  g Quote from F Estimated	leet Mgr; but fur	Total 110  FY01 ded under Al 33117  FY04	FY02 V User 66234  FY05	Total 110 FY03	83  FY04	-
OVERALL PE	4. Fleet Efficie  TROL FUEL RE STRATEGY OPTION 1 2	MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total my Increases - Require gra - Achieve inc LDV turnove - Assume ave New LDV New gal used Gal saved in Gal Saved Ct Total gal savel Course of Covered Baseline GGI 462.255	2000 Total 118  Service in FY2 374 42 415  dually increasii - FY01 = 0.5 r - FY03 = 2.0 r - FY03 = 2.0 r - FY03 = 2.0 r - FY05 = 3.0 r - FY05	AFV 96 2005 2005 2005 2007 2007 2007 2007 2007	2001 Total AF Use (GGE) in FY0 149027 16559 165585 at with FY02 an etion of vehicle 9,514 mi/yr bas FY02 27 504 13606 758 1146	AFV 83 15 15 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	ybrids r and avq 17.9 r FY04 27 467 12604 1760 4349	83  AFV Refuelin Infra (\$). \$850,000 \$50,000 \$900,000  Pryo5 27 456 12303 2061 6410	Total 110  g Quote from F Estimated	leet Mgr; but fur	Total 110  FY01 ded under Al 33117  FY04	FY02 V User 66234  FY05	Total 110 FY03	83  FY04	-
OVERALL PE	4. Fleet Efficie  TROL FUEL RE STRATEGY OPTION 1	MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total my Increases - Require gra - Achieve inc LDV turnove - Assume ave New LDV New gal used Gal saved in Gal Saved Ct Total gal savel Course of Covered Baseline GGI 462.255	2000 Total 118  1. Service in FY2 374 42 415  - FY01 = 0.5 r - FY03 = 2.0 r - FY03 = 2.0 r - FY05 = 3.0 r - FY05 = 3.0 r - FY05 = 0.0 r - FY0	AFV 96 2005 2005 2005 2007 2007 2007 2007 2007	2001 Total Total AF Use (GGE) in FY0 149027 16559 165585  at with FY02 an  ction of vehicle 9,514 mi/yr bas FY02 27 504 13606 758 1146	AFV 83 15 15 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	ybrids r and avq 17.9 r FY04 27 467 12604 1760 4349	83  AFV Refuelin Infra (\$). \$850,000 \$50,000 \$900,000  Pryo5 27 456 12303 2061 6410	Total 110  g Quote from F Estimated	leet Mgr; but fur	Total 110  FY01 ded under Al 33117  FY04	FY02 V User 66234  FY05	Total 110 FY03	83  FY04	-
OVERALL PE	4. Fleet Efficie  TROL FUEL RE STRATEGY OPTION 1 2 3	MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total my Increases - Require gra - Achieve inc LDV turnove - Assume ave New LDV New gal used Gal saved in Gal Saved Ct Total gal savel Course of Covered Baseline GGI 462.255	2000 Total 118  Service in FY2 374 42 415  dually increasi - FY01 = 0.5 f - FY02 = 0.5 f - FY03 = 2.0 r - FY04 = 2.5 n - FY04 = 2.5 n - FY05 = 2.0 r - FY05 = 2.0 r - FY05 = 0.0 r - FY05	AFV 96 2005 2005 2005 2007 2007 2007 2007 2007	2001 Total Total AF Use (GGE) in FY0 149027 16559 165585  at with FY02 an  ction of vehicle 9,514 mi/yr bas FY02 27 504 13606 758 1146	AFV 83 15 15 15 15 16 17 18 18 18 18 18 18 18 18 18 18 18 18 18	ybrids r and avq 17.9 r FY04 27 467 12604 1760 4349	83  AFV Refuelin Infra (\$). \$850,000 \$50,000 \$900,000  Pryo5 27 456 12303 2061 6410	Total 110  g Quote from F Estimated	leet Mgr; but fur	Total 110  FY01 ded under Al 33117  FY04	FY02 V User 66234  FY05	Total 110 FY03	83  FY04	

TOTAL

TOTAL FUE	I HEE													
TOTAL FUE	L USE	1999		1999 NON-R			1999 EXEM	PT		2005 GOAL	_			
	GASOL	(GAL) 529,205	GGE 529,205	GAL	GGE	GAL 209803	GGE 209803		TOTAL GGE 319,402	GGE REDUCT				
	DIESEL TOTAL	158,709	182,039 711,244			59,780	68,568 278,371		113,472 432.874	86.575				
							2.0,0		102.07	00,010				
FLEET DAT	A -VIDS										_			
		1999 INVENTORY	NEW TOTAL	NEW AFV	2000 INVENTOR	Y NEW TOTAL	L NEW AFV	2001 INVENTORY	NEW TOTAL	NEW AFV				
	LDV MDV	591 468	122 47	83	833 530	75 60	62 0	833 530	75 60	62 0				
	HDV	101	2	0	115	5	0	115	5	0				
	AFV	244 GASOL	DIESEL	EXEMPT						_				
	LDV MDV	591 438	30	263						_				
	HDV	0	101							_				
FLEET FUE	L ECONOMY	(NEW ACQ	UISITIONS) -	GSA Leased	Vehicle Da	ıta								
	Vehicle Type	-	•		1999	Fuel Econo	my Info							
	Make	Model	Cylinders	Drive	Acquisition	ns City FE	Hwy FE	Combined FI		_	_			
		1500 Cargo astro			3	13 16	18 19	15 17	0.067307692 0.174177632					
		breeze cherokee			3 14	20 16	28 20	23 18	0.130714286 0.79625					
		D150			1	14	19	16	0.062969925					
		Dakota Durango			3 45	15 15	20 20	17 17	0.1775 2.6625					
-		Expedition F250			11 7	11 13	20 18	14 15	0.7975 0.471153846					
		S10			3 13	17 15	21 19	19 17	0.161344538 0.784561404					
		Tahoe			13	15	19	17	<u>0.764361404</u>					
						Baseline Av	erage FE		16.5					
						FY2002 FE (	Goal		17.5	_				
						FY2005 FE (	Goai		19.5	_	_			
-		* Fuel econo	my values from	DOE fleet fuel	economy guid	de								<del></del>
STRATEGY											_			
	1. BIODIESEL	. USE												
		- LANL has H		s constant thro	ugh FY2005									
		- Assume tot	al conversion t	o B20 by FY200	15									
	Fv2005	FY2005		EQUIV FY200	05		FY01	FY02	FY03	FY04	FY05			
	Diesel (gal) 158,709	B20 USE (gal 161,804	1)	FUEL DISPL 32,877	(GGE)		32,877	32,877	32,877	32,877	32,877			
				erque is AFV US	er City									
		- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual	equisition rates ions assumed to er assumed to s based on 1999 LDV fuel use =	to be LDV be five years 9 purchased (10 : 310 GGE based	e as FY2001; A	AFV acquisition :	= 75% EPACT							
		- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual	equisition rates ions assumed to er assumed to s based on 1999	assumed same to be LDV be five years 9 purchased (10 : 310 GGE based	e as FY2001; A		= 75% EPACT							
		- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual	equisition rates ions assumed to er assumed to be based on 1999.  LDV fuel use = ned 75% E85 use	assumed same to be LDV be five years 9 purchased (10 310 GGE based se	e as FY2001; A 00% E85) d on fleet ops 2001	data	2002	ΔFV	2003 Total	ΔFV	2004 Total	ΔFV	2005 Total	ΔFV
		- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assum	equisition rates ions assumed to er assumed to based on 1999  LDV fuel use = ned 75% E85 us	assumed same to be LDV be five years 9 purchased (10 : 310 GGE based	e as FY2001; A 00% E85) d on fleet ops			AFV 62	2003 Total 75	AFV 62	2004 Total 75	AFV 62	2005 Total 75	AFV 62
		- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assun	equisition rates ions assumed to assumed to a based on 1999 LDV fuel use = ned 75% E85 use 2000 Total	assumed same to be LDV be five years 9 purchased (10 310 GGE based se	2004 E85) d on fleet ops  2001 Total 75	data  AFV 62	2002 Total	62	Total 75		Total	AFV 62	Total	
		- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assun LDV MDV HDV	equisition rates ions assumed to assumed to a based on 1999 LDV fuel use = ned 75% E85 use 2000 Total	assumed same to be LDV be five years 9 purchased (10 310 GGE based se  AFV 62	2 as FY2001; A 200% E85) d on fleet ops 2001 Total	AFV 62	2002 Total		Total 75		Total	AFV 62	Total	
		- Non-AFV ac - All acquisiti - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assun  LDV MDV HDV Total AFVs in	aguisition rates ions assumed to assumed to s based on 1999 LDV fuel use = ned 75% E85 us 2000 Total 75	assumed same to be LDV be five years 9 purchased (10 310 GGE based se  AFV 62	e as FY2001; A  00% E85) d on fleet ops  2001 Total 75  Total AF U: (GGE) in F	AFV 62	2002 Total	AFV Refuelir Infra (\$)	Total 75	62	Total 75	62	Total 75	<u>62</u>
		- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assun LDV MDV HDV	equisition rates ions assumed to rassumed to s based on 1999 LDV fuel use = ned 75% E85 us 2000 Total 75	assumed same to be LDV be five years 9 purchased (10 310 GGE based se  AFV 62	e as FY2001; A  00% E85) d on fleet ops  2001 Total 75	AFV 62	2002 Total	62 AFV Refuelir	Total 75	62	Total 75	62	Total 75	<u>62</u>
	3. Fuel Econo	- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assum - FFVs assum - LDV - MDV - MDV - MDV - MDV - MDV - Total AFVs in - E85 FFV - Total	auisition rates to sumed ions assumed to re assumed to the rate on 1995 LDV fuel use = ned 75% E85 us 2000 Total Total Total Total Total 310 310 310	assumed same to be LDV to be LDV to be LDV be five years 9 purchased (10 3.310 GGE based see AFV 62	2001 Total AF U: (GGE) in F'	AFV 62 59 59	2002 Total	AFV Refuelir Infra (\$)	Total 75	FY01	Total 75 FY02	62 FY03	Total 75 FY04	62 
	3. Fuel Econo	- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assum - FFVs assum - LDV - MDV - MDV - MDV - MDV - MDV - Total AFVs in - E85 FFV - Total	auisition rates to sumed ions assumed to re assumed to the rate on 1995 LDV fuel use = ned 75% E85 us 2000 Total Total Total Total Total 310 310 310	assumed same to be LDV be five years 9 purchased (10 310 GGE based se  AFV 62	2001 Total AF U: (GGE) in F'	AFV 62 59 59	2002 Total	AFV Refuelir Infra (\$)	Total 75	FY01	Total 75 FY02	62 FY03	Total 75 FY04	62 
	3. Fuel Econo	- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assum - FFVs assum - LDV - MDV - MDV - MDV - MDV - MDV - Total AFVs in - E85 FFV - Total	aguisition rates ions assumed to er assumed to be based on 19%. LDV fuel use = ned 75% E85 us 2000 Total 75  an Service in FY:  310 310 adually increasi	assumed same to be LDV be five years 9 purchased (101 and 102 based 102 based 103 and 103 based 103 and 103 based 10	2001 Total AF U: (GGE) in F'	AFV 62 59 59	2002 Total	AFV Refuelir Infra (\$)	Total 75	FY01	Total 75 FY02	62 FY03	Total 75 FY04	62 
	3. Fuel Econo	- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assum - FFVs assum - LDV - MDV - MDV - MDV - MDV - MDV - Total AFVs in - E85 FFV - Total	auisition rates ions assumed to er assumed to s based on 1993 LDV fuel use = ned 75% E85 us 2000 Total 75  n Service in FY: 310 310 310	assumed same to be LDV be five years 9 purchased (10) 3:310 GGE based see AFV 62 2005	2001 Total AF U: (GGE) in F'	AFV 62 59 59	2002 Total	AFV Refuelir Infra (\$)	Total 75	FY01	Total 75 FY02	62 FY03	Total 75 FY04	62 
	3. Fuel Econo	- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assum  LDV MDV HDV  Total AFVs in  E85 FFV Total  omy Increases - Require gra	adustition rates to be according to the control of	assumed same to be LDV be five years 9 purchased (10 s) and GE based see AFV 62 2005	e as FY2001; A  100% E85) d on fleet ops  2001 Total 75  Total AF Us (GGE) in F 72075 72075 nt with FY02 a	AFV 62 see r05	2002 Total 75	AFV Refuelir Infra (\$)	Total 75	FY01	Total 75 FY02	62 FY03	Total 75 FY04	62 
	3. Fuel Econo	- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assum  LDV MDV HDV  Total AFVs ir  E85 FFV Total  omy Increases - Require gra  - Achieve inc - LDV turnov	auisition rates ions assumed to reassumed to the reassume	assumed same to be LDV be five years 9 purchased (10 3 10 GGE basers se Figure 1	as FY2001; A  10% E85) d on fleet ops  2001 Total 75  Total AF U: (GGE) in F  72075 72075 nt with FY02 a	AFV 62 See See SY05 Goals and FY05 goals	2002 Total 75	AFV Refuelir Infra (\$) 50000	Total 75	FY01	Total 75 FY02	62 FY03	Total 75 FY04	62 
	3. Fuel Econo	- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assum  LDV MDV HDV  Total AFVs ir  E85 FFV Total  omy Increases - Require gra  - Achieve inc - LDV turnov	auisition rates ions assumed to reassumed to the reassume	assumed same to be LDV be five years 9 purchased (10 3 10 GGE basers se Figure 1	as FY2001; A  10% E85) d on fleet ops  2001 Total 75  Total AF U: (GGE) in F  72075 72075 nt with FY02 a	AFV 62 see r05	2002 Total 75	AFV Refuelir Infra (\$) 50000	Total 75	FY01	Total 75 FY02	62 FY03	Total 75 FY04	62 
	3. Fuel Econo	- Non-AFV ac - All acquisit - LDV turnov - Mix of AFVs - Avg annual - FFVs assun  LDV MDV HDV Total AFVs in E85 FFV Total omy Increases - Require gra - Achieve inc - LDV turnov - Assume ave	auisition rates ions assumed to reassumed to the reassume	assumed same to be LDV be five years 9 burchased (101 a. 310 GGE baser se    AFV 62   2005    and FE consister mpg increase mpg increase mpg increase mpg increase und better selection be five years in 1999 travels.	e as FY2001; A  10% E85) d on fleet ops  2001 Total 75  Total AF U: (GGE) in F' 72075 72075 nt with FY02 a	AFV 62 se r05 and FY05 goals le types, use of issed on 310 gal/y FY03	2002 Total 75 hybrids rr and avg 16.5	AFV Refuelir Infra (\$) 50000	Total 75	FY01	Total 75 FY02	62 FY03	Total 75 FY04	62 
	3. Fuel Econo	- Non-AFV ac - All acquisit - LDV turnov - Mix of AFVs - Avg annual - FFVs assun  LDV - MDV - Total AFVs in - Require gra - Achieve inc - LDV turnov - Assume ave	ausistion rates it in a saumed it or assumed it or assumed to er assumed to be based on 19% LDV fuel use = ned 75% E85 ur 2000 Total 75  an Service in FY:  310 310 310 310 310 310 310 310 310 31	assumed same to be LDV be five years 9 purchased (10 310 GGE basers se AFV 62 2005 2005 2005 2005 2005 2005 2005 2	e as FY2001; A  10% E85) d on fleet ops  2001 Total 75  Total AF U: (GGE) in F'  72075 72075  Total of vehic  5115 mi/yr ba  FY02 13 292	AFV 62 see r05 and FY05 goals le types, use of seed on 310 gally FY03 13 276	2002 Total 75 hybrids	AFV Refuelir Infra (S) 50000	Total 75	FY01	Total 75 FY02	62 FY03	Total 75 FY04	62 
	3. Fuel Econo	- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assun  LDV - MDV - HDV - Total AFVs in - E85 FFV - Total - Achieve inc - LDV turnov - Assume avr  New LDV qal/LDV - New LDV qal/LDV - All qual used	ausistion rates ions assumed to er assumed to er assumed to be based on 1925 LDV fuel use ened 75% E85 us 2000 Total 75  310 310 310  - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY04 = 2.5 r - FY05 = 3.0 erassed FE throer assumed to erage new LDV	assumed same to be LDV be five years 9 purchased (10) 310 GGE basers 9 and FE consister mpg increase mpg increase mpg increase mpg increase mpg increase mpg increase in 1999 travels FY01 13 3000 3901	2001 Total AF U: (GGE) in F' 12075 T2075 T2075 T2075 T15115 mi/yr ba FY02 13 292 3790	data  AFV 62  see Y05  and FY05 goals  le types, use of 130 gal/s FY03 13 276 3586	2002 Total 75 hybrids vr and avg 16.5 F 4704 13 269 3492	### AFV Refuelir Intra (\$)  50000  ### State	Total 75	FY01	Total 75 FY02	62 FY03	Total 75 FY04	62 
	3. Fuel Econo	- Non-AFV ac - All acquisit - LDV turnov - Mix of AFVs - Avg annual - FFVs assun  LDV - MDV - Total AFVs in - Require gra - Achieve inc - LDV turnov - Assume ave	auisition rates ions assumed to reassumed to the rate of 1999 LDV fuel use = ned 75% E85 used to 1999 LDV fuel use = ned 75% E85 used to 1999 LDV fuel use = ned 75% E85 used to 1999 LDV fuel use = ned 75% E85 used to 1999 LDV fuel use = ned 75% E85 used to 1999 LDV fuel used	assumed same to be LDV be five years 9 purchased (10 s) 210 GGE based see AFV 62 2005 2005 2005 2005 2005 2005 2005 2	e as FY2001; A  10% E85) d on fleet ops  2001 Total 75  Total AF U: (GGE) in F'  72075 72075  Total of vehic  5115 mi/yr ba  FY02 13 292	AFV 62 see r05 and FY05 goals le types, use of seed on 310 gally FY03 13 276	2002 Total 75 hybrids rr and avg 16.5 FY04 13 269	### AFV Refuelin Infra (\$)   50000	Total 75	FY01	Total 75 FY02	62 FY03	Total 75 FY04	62 
	3. Fuel Econo	- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assum  LDV MDV HDV Total AFVs ir  E85 FFV Total  omy Increases - Require gra  - Achieve inc - LDV turnov - Assume ave  New LDV gal/LDV New gal usee Gal saved in	ausition rates ions assumed to er assumed to er assumed to to a based on 1991 LDV fuel use = ned 75% E85 ut 2000 Total 75  1 Service in FY: 310 310 310 FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY03 = 2.0 - FY05 = 3.0 reased FE throw assumed to erage new LDV erage new LDV um	assumed same to be LDV be five years 9 purchased (10 310 GGE baserse e    AFV 62	2001 Total AF Ut (GGE) in F 72075 T2075 T2	AFV 62 See Y05 and FY05 goals le types, use of 13 13 276 3586 444	2002 Total 75 hybrids vr and avg 16.5 FY04 13 269 3492 538	MPQ FY05 13 262 3402 628	Total 75	FY01	Total 75 FY02	62 FY03	Total 75 FY04	62 
		- Non-AFV ac - All acquisit - LDV turnov - Mix of AFVs - Avg annual - FFVs assun  LDV - MDV - MDV - MDV - MDV - MDV - MDV - Total AFVs in - E85 FFV - Total - MDV - Achieve inc - LDV turnov - Assume avg - Total gal Saved Cr - Total gal saved Cr - Total gal saved cr	adjustition rates ions assumed to er assumed to be based on 195% E85 us 2000 Total 75  1 Service in FY: 310 310 310 310 310 310 310 310 310 310	assumed same to be LDV be five years 9 purchased (10 310 GGE baserse e    AFV 62	2001 Total AF Ut (GGE) in F 72075 T2075 T2	AFV 62 see Y05 and FY05 goals le types, use of 1 sed on 310 gal/y FY03 13 276 3586 444 813	2002 Total 75 hybrids rr and avg 16.5 FY04 13 269 3492 538 1352	MPQ FY05 13 262 3402 628	Total 75	FY01	Total 75 FY02	62 FY03	Total 75 FY04	62 
		- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assun  LDV - MDV - HDV - Total AFVs in - E85 FFV - Total - Achieve inc - LDV turnov - Assume avr - Assume avr - Mew LDV - Gal saved in - Gal saved in - Total qal save - Total qal save - Reduced ve - Reduced ve	ausistion rates ions assumed to a saumed to a saumed to a saumed to be assumed to the saumed to a saum	assumed same to be LDV be five years 9 purchased (10 310 GGE baserse e    AFV 62	2001 Total AF Ut (GGE) in F 72075 T2075 T2	AFV 62 see Y05 and FY05 goals le types, use of 1 sed on 310 gal/y FY03 13 276 3586 444 813	2002 Total 75 hybrids rr and avg 16.5 FY04 13 269 3492 538 1352	MPQ FY05 13 262 3402 628	Total 75	FY01	Total 75 FY02	62 FY03	Total 75 FY04	62 
		- Non-AFV as - All acquisiti - LDV turnov - Avg annual - FFVs assun LDV - Avg annual - Avg an	adjustition rates it in a same of the consumer	assumed same do be LDV be five years of pourchased (10) 310 GGE basers of the pourchased (10) 310 GGE basers	2001	AFV 62 se y05 and FY05 goals le types, use of 1 ssed on 310 gal/y FY03 13 276 3586 444 813 1979	2002 Total 75 hybrids rr and avg 16.5 FY04 13 269 3492 538 1352	MPQ FY05 13 262 3402 628	Total 75	FY01	Total 75 FY02	62 FY03	Total 75 FY04	62 
		- Non-AFV ac - All acquisit - LDV turnov - Mix of AFVs - Avg annual - FFVs assun  LDV - MDV - HDV - Total AFVs in - E85 FFV - Total - Achieve inc - LDV turnov - Assume avi  New LDV - Gall LDV - New gall user - Gal saved in - Gal Saved ic - Total gal save - Increased - Reduced ve - Increased ve - More use of - Assume ovi - More use of - Assume ovi	adjustition rates it in a same of the consumer	assumed same do be LDV to be LDV to be LDV to be tive years 9 purchased (101 310 GGE basers se    AFV 62    2005    mg FE consister mpg increase mpg	as FY2001; A  10% E85) d on fleet ops  2001 Total 75  Total AF U: (GGE) in F  72075 72075  Total of Vehic  5115 milyr ba FY02 13 292 3790 240 369	AFV 62 see Y05 and FY05 goals le types, use of 1 sed on 310 gal/y FY03 13 276 3586 444 813	2002 Total 75 hybrids rr and avg 16.5 FY04 13 269 3492 538 1352	MPQ FY05 13 2628 1979	Total 75	FY01 14415	Total 75  FY02  28830	FY03  43245	Total 75 FY04	62 
		- Non-AFV as - All acquisiti - LDV turnov - Avg annual - FFVs assun LDV - Avg annual - Avg an	ausistion rates ions assumed to er assumed to er assumed to be based on 1999 LDV fuel use = ned 75% E85 us 2000 Total 75  310 310 310 310 -FY01 = 0.5 -FY02 = 1.0 -FY03 = 2.0 -FY03 = 2.0 -FY04 = 0.5 -FY05 = 3.0 -FY04 = 0.5 -FY05 = 3.0 -FY05 = 0.5	assumed same to be LDV be five years 9 purchased (10 310 GGE basers se    AFV 62    2005    AFV 62    2005    AFV 62    2005    The properties of the proper	as FY2001; A  10% E85) d on fleet ops.  2001 Total AF U: (GGE) in F: 72075 72075 Tetal AF U: (10	AFV 62 se y05 and FY05 goals le types, use of 1 ssed on 310 gal/y FY03 13 276 3586 444 813 1979	2002 Total 75 hybrids rr and avg 16.5 FY04 13 269 3492 538 1352	MPQ FY05 13 262 3402 628	Total 75	FY01	Total 75 FY02	62 FY03	Total 75 FY04	62 
		- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assum - Avg annual - Avg avg avg	ausistion rates ions assumed to er assumed to er assumed to be based on 1999 LDV fuel use = ned 75% E85 us 2000 Total 75  310 310 310 310 -FY01 = 0.5 -FY02 = 1.0 -FY03 = 2.0 -FY03 = 2.0 -FY04 = 0.5 -FY05 = 3.0 -FY04 = 0.5 -FY05 = 3.0 -FY05 = 0.5	assumed same do be LDV to be LDV to be LDV to be tive years 9 purchased (101 310 GGE basers se    AFV 62    2005    mg FE consister mpg increase mpg	as FY2001; A  10% E85) d on fleet ops.  2001 Total AF U: (GGE) in F: 72075 72075 Tetal AF U: (The control of the control of th	AFV 62 se y05 and FY05 goals le types, use of 1 ssed on 310 gal/y FY03 13 276 3586 444 813 1979	2002 Total 75 hybrids rr and avg 16.5 FY04 13 269 3492 538 1352	MPQ FY05 13 2628 1979	Total 75	FY01 14415	Total 75  FY02  28830	FY03  43245	Total 75 FY04	62 
OVERALL PE		- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assun  LDV - MDV - HDV - Total AFVs in  E85 FFV Total - Achieve inc - LDV turnov - Assume avr  New LDV qall.DV New gal usec Gal saved in Gal Saved co Total gal save - Reduced ve - Increased ve - Increased ve - More use of - Assume ow Covered Baseline GG 432,874	cousition rates ions assumed to er assumed to a saumed to be a based on 1925 LDV fuel use = ned 75% E85 us 2000 Total 75  310 310 310  - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY04 = 2.5 r - FY05 = 3.0 - FY05 = 3.	assumed same assumed same to be LDV be five years of pourchased (10 3.10 GGE basers see a pourchased (10 3.10 GGE basers s	as FY2001; A  10% E85) d on fleet ops.  2001 Total AF U: (GGE) in F: 72075 72075 Tetal AF U: (The control of the control of th	AFV 62 se y05 and FY05 goals le types, use of 1 ssed on 310 gal/y FY03 13 276 3586 444 813 1979	2002 Total 75 hybrids rr and avg 16.5 FY04 13 269 3492 538 1352	MPG FY05 13 262 3402 628 1979	Total 75	FY01 14415	Total 75  FY02  28830  FY04	FY03  43245  FY05	Total 75 FY04	62 
OVERALL PE	4. Fleet Efficie	- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assun  LDV - MDV - HDV - Total AFVs in  E85 FFV Total - Achieve inc - LDV turnov - Assume avr  New LDV qall.DV New gal usec Gal saved in Gal Saved co Total gal save - Reduced ve - Increased ve - Increased ve - More use of - Assume ow Covered Baseline GG 432,874	adjustition rates in a saumed in oris assumed to er assumed to er assumed to be based on 1920 LDV fuel use = ned 75% E85 us 2000 Total 75  a Service in FY:  310 310 310  - FY01 = 0.5 FY02 = 1.0 FY03 = 2.0 FY03 = 2.0 FY05 = 3.0 FY05 = 3.0 FY05 = 3.0 FY0 = assumed to erage new LDV  display the first in the	assumed same dame to be LDV be five years to be LDV be five years 9 bourchased (101.310 GGE basers see    AFV 62   2005   AFV 62    AFV 62   AFV 62    AFV 62   AFV 62    AFV 62	as FY2001; A  10% E85) d on fleet ops.  2001 Total AF U: (GGE) in F: 72075 72075 Tetal AF U: (The control of the control of th	AFV 62 se y05 and FY05 goals le types, use of 1 ssed on 310 gal/y FY03 13 276 3586 444 813 1979	2002 Total 75 hybrids rr and avg 16.5 FY04 13 269 3492 538 1352	MPG FY05 13 262 3402 628 1979	Total 75	FY01 14415	Total 75  FY02  28830  FY04	FY03  43245  FY05	Total 75 FY04	62 
OVERALL PE	4. Fleet Efficie	- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assun  LDV - MDV - HDV - Total AFVs in  E85 FFV Total - Achieve inc - LDV turnov - Assume avr  New LDV qall.DV New gal usec Gal saved in Gal Saved co Total gal save - Reduced ve - Increased ve - Increased ve - More use of - Assume ow Covered Baseline GG 432,874	adjustition rates in sumed in one assumed in er assumed to er assumed to er assumed to be based on 19% E85 ut 2000 Total 75  1 Service in FY:  310 310 310 310 310 310 310 310 310 310	assumed same dame to be LDV be five years to be LDV be five years 9 bourchased (101.310 GGE basers see    AFV 62   2005   AFV 62    AFV 62   AFV 62    AFV 62   AFV 62    AFV 62	as FY2001; A  10% E85) d on fleet ops.  2001 Total AF U: (GGE) in F: 72075 72075 Tetal AF U: (The control of the control of th	AFV 62 se y05 and FY05 goals le types, use of 1 ssed on 310 gal/y FY03 13 276 3586 444 813 1979	2002 Total 75 hybrids rr and avg 16.5 FY04 13 269 3492 538 1352	MPG FY05 13 262 3402 628 1979	Total 75	FY01 14415	Total 75  FY02  28830  FY04	FY03  43245  FY05	Total 75 FY04	62 
OVERALL PE	4. Fleet Efficient TROL FUEL RESTRATEGY OPTION 1 2	- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assun  LDV - MDV - HDV - Total AFVs in  E85 FFV Total - Achieve inc - LDV turnov - Assume avr  New LDV qall.DV New gal usec Gal saved in Gal Saved co Total gal save - Reduced ve - Increased ve - Increased ve - More use of - Assume ow Covered Baseline GG 432,874	adjustition rates ions assumed ions assumed to er assumed to er assumed to be based on 1925 LDV fuel use = ned 75% E85 us 2000 Total 75  1 Service in FY:  310 310 310 310 310 310 310 310 310 310	assumed same of be LDV be five years of be LDV be five years of pourchased (101.310 GGE basers) and FE consister mpg increase mpg incre	as FY2001; A  10% E85) d on fleet ops.  2001 Total AF U: (GGE) in F: 72075 72075 Tetal AF U: (The control of the control of th	AFV 62 se y05 and FY05 goals le types, use of 1 ssed on 310 gal/y FY03 13 276 3586 444 813 1979	2002 Total 75 hybrids rr and avg 16.5 FY04 13 269 3492 538 1352	MPG FY05 13 262 3402 628 1979	Total 75	FY01 14415	Total 75  FY02  28830  FY04	FY03  43245  FY05	Total 75 FY04	62 
OVERALL PE	4. Fleet Efficie  TROL FUEL RE  STRATEGY OPTION 1	- Non-AFV ac - All acquisiti - LDV turnov - Mix of AFVs - Avg annual - FFVs assun  LDV - MDV - HDV - Total AFVs in  E85 FFV Total - Achieve inc - LDV turnov - Assume avr  New LDV qall.DV New gal usec Gal saved in Gal Saved in Total qal sav - Reduced ve - Increased ve - Reduced ve - Increased ve - Reduced ve - Increased ve - More use of - Assume ow Covered Baseline GG 432,874	acquisition rates ions assumed to er assumed to er assumed to be based on 1925 LDV fuel use = ned 75% E85 us 2000 Total 75  310 310 310  - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY04 = 2.5 r - FY05 = 3.0 - FY05 =	assumed same of be LDV be five years of be LDV be five years of pourchased (101.310 GGE basers) and FE consister mpg increase mpg incre	as FY2001; A  10% E85) d on fleet ops.  2001 Total AF U: (GGE) in F: 72075 72075 Tetal AF U: (The control of the control of th	AFV 62 se y05 and FY05 goals le types, use of 1 ssed on 310 gal/y FY03 13 276 3586 444 813 1979	2002 Total 75 hybrids rr and avg 16.5 FY04 13 269 3492 538 1352	MPG FY05 13 262 3402 628 1979	Total 75	FY01 14415	Total 75  FY02  28830  FY04	FY03  43245  FY05	Total 75 FY04	62 

# **NETL MORGANTOWN**

TOTAL

## CONTROL OF CONTROL		1999		1999 NON-F			1999 EXEM	PT		2005 GOAL				
TOTAL - 1902	GASOI			GAL	GGE			·		GGE REDUC	<u>T</u>			
TOATA-VIDES   1998	DIESEL	132	151			-	-		151	<del>-</del>				
1982   1982			4.786		-		309		4,477	<u>895</u>				
LOV   10	T DATA -VIDS	1999			2000			2001			_			
MSCV   4	LDV		Y NEW TOTAL	NEW AFV						NEW AFV 3				
### ACCOUNTY (NEW COUNTY) (DESEL)   CENTER	MDV	4			4			4	1	<del></del> -				
LOV		4				U			U					
### A 9 0  ### T FURL ECONOMY NEW ACCUSETIONS) - FAST Vehicle Data (2009)  ### WAS ### ACCUSETIONS) - FAST Vehicle Data (2009)  ### WAS ### ACCUSETIONS - FAST Vehicle Data (2009)  ### WAS ### ACCUSETIONS - FAST Vehicle Data (2009)  ### WAS ### ACCUSETIONS - FAST Vehicle Data (2009)  ### WAS ### ACCUSETIONS - FAST Vehicle Data (2009)  ### WAS ### ACCUSETIONS - FAST Vehicle Data (2009)  ### WAS ### ACCUSETIONS - FAST Vehicle Data (2009)  ### WAS ### ACCUSETIONS - FAST Vehicle Data (2009)  ### WAS ### ACCUSETIONS - FAST Vehicle Data (2009)  ### WAS ### ACCUSETIONS - FAST Vehicle Data (2009)  ### ACCUSETIONS - FAST Vehicle Data (2009)	LDV				(Per vehicle	fuel consum	otion assumed sa	ame as NETL-	Pitt = 309 Gas: 132	2 diesel)				
Truel Economy NEW ACQUISTIONS) - FAST Vehicle Data (2000)   Whick Type   1999	MDV		0	0						_				
Vision Type			OLUSITIONS) -	EAST Vohio	lo Data (2000	1)				_				
Make   Model Cylinders   Drive   Acquisitions   City FE   Have FE   Combined FF			<u>QUISITIONS) -</u>	FAST VEHIC			omy Info							
1		Model	Cylinders	Drive	Acquisition	s City FE	Hwy FE		I FE	_	_			
1		Van						17		_				
1	Compact S	edan			3	20	28	23	0.130714286	_				
15 20 17						14	19	16	0	_				
1														
Passifics Animates   Fig.   Passifics   Passific   Passifi														
Baseline Average FE   30.2														
F2002 FE Goal 112  *Fuel economy, values from DOE fleet fuel economy guide  *Fuel economy, values from DOE fleet fuel economy guide  **IFLE TIT The HOY fleet  - **INTLE TITT has HOY fleet  - **Session diseal use remains soonant through F72005  - **Assume diseal use remains soonant through F72005  - **Assume fool conversion to Roll V/ F7005  - **Assume fool to Roll Roll V/ F7005  - **Assume fool to Roll Roll Roll Roll V/ F7005  - **Assume fool to Roll Roll Roll Roll Roll Roll Rol														
FY2002 FE Good 732  *Fuel economy, values from DOE fleet fuel economy, quides  *Fuel economy, values from DOE fleet fuel economy, quides  *Fuel economy, values from DOE fleet fuel economy, quides  *IEGY  1. BIODIESEL USE  - NETL HITT has HOV fleet  - Assume disea use remains constant through FY2005  - Assume food use for the food use of the food through the food use of the food						B P			<u> </u>					
**Fuel economy values from DOE fleet dust economy quide  **INEDOESEL USE**  **NETE, FITT has 169V fleet**  **NETE, FITT has 169V fleet**  **Assume first conversion to Constant Brough FY0905**  **Assume first conversion to Constant Brough FY0905**  **Assume first conversion to Constant Brough FY0905**  **Page 56**  *						FY2002 FE	Goal		21.2	_				
1. BIODESEL USE  1. BIODESEL USE  1. Abserte dissel true remains constant through P70905  - Asserte dissel true remains constant through P70905  - Asserte dissel true remains constant through P70905  F72005  F72005  F72005  F72005  F72006  F72006  F72006  F72007  F72007  F72007  F72007  F72007  F72007  F72007  F72008  F72008							Goal		23.2	_				
1. BIODIESEL USE  - Assume direct use remains constant through F72005  - Assume folial conversion to 28 db yr F72005  - P72005  - F72005  - F72005		* Fuel eco	nomy values from	DOE fleet fue	l economy guid	le								
1. BIODIESEL USE  - Assume disease use remains constant through F72005  - Assume foliace use remains constant through F72005  - P72005  - F72005	ATEGY													
- Assum dissel use remains constant forcious F72005 F-2005		EL USE												
- Assume total conversion to 826 by FY2005   Proposition   Regular   Proposition   Pro		- NETL PIT		s constant thr	ough FY2005									
Dispet   Gard   B20   DE   Gard   FUEL DISPL (GGE)														
132 135 27 27 27 27 27 27 27 27 27 27 27 27 27	Fy2005	FY2005		EQUIV FY20	005		FY01	FY02	FY03	FY04	FY05			
2. AFV ACQUISITIONS—VIDS  APV Retriation access (c.15 miles) = CNG (on-site slow fill)  - Vehicle acquisition rates assumed to be 50°C AFV acquisition in 75% EPACT  - All acquisitions assumed to be 10°C CNG per fleet mor)  - LIDV Unrover assumed to be three years  - Min of AFV based on 1998 unchased 10°09. CNG per fleet mor)  - FFVs assumed 75°C CNG use  2000 30 2003 2004 2005  - FFVs assumed 75°C CNG use  2000 4 7 2001 AFV 2001 AF		B20 USE (	gal)		_ (GGE)		27	27	27	27	27			
Hus of AFVs based on 1999 purchased (100% CNG) per fleet may - Ava annual LDV fuel use = 290 GGE based on FAST input for NETL-Pitt DDE-owned vehicles in FY2000 - FYVs assumed 75% CNG use - 2000		- venicie a			F/ AF\/	1111)	DAOT							
- FFVs assumed 75% CNG use		- All acqui	sitions assumed t	to be LDV	5/yr: AFV acqui	isition = 75% E	PACT							
Total AFV   Tota		- All acqui	sitions assumed to over assumed to	to be LDV be three years	5/yr: AFV acqui	isition = 75% E								
LDV		- All acqui - LDV turn - Mix of AF - Avg annu	sitions assumed to over assumed to Vs based on 1999 al LDV fuel use =	to be LDV be three years 9 purchased (1 : 309 GGE base	5/yr: AFV acqui	isition = 75% E		ehicles in FY2	000					
HDV		- All acqui - LDV turn - Mix of AF - Avg annu	sitions assumed to over assumed to VS based on 1999 Ial LDV fuel use = umed 75% CNG u	to be LDV be three years 9 purchased (1 : 309 GGE base use	5/yr: AFV acqui 00% CNG per fled on FAST inpu	isition = 75% E leet mgr) ut for NETL-Pi	itt DOE-owned ve		2003					
Total AFVs in Service in FY2005 (GGE) in FY05 Infra (\$) FY01 FY02 FY03 FY04  CNG 12 2781 125000 556.2 1112.4 1668.6 2224.8  3. Fuel Economy Increases		- All acqui - LDV turn - Mix of AF - Avg annu - FFVs ass	sitions assumed to over assumed to VS based on 1999 Ial LDV fuel use = umed 75% CNG u	to be LDV be three years 9 purchased (1 : 309 GGE base use	5/yr: AFV acqui 00% CNG per fled on FAST inpu 2001 Total	isition = 75% E leet mgr) ut for NETL-Pi AFV	itt DOE-owned ve 2002 Total	AFV	2003 Total		Total		Total	AFV 4
CNG 12 2781 125000 556.2 1112.4 1688.6 2224.8		- All acqui - LDV turn - Mix of AF - Avg annu - FFVs ass	sitions assumed to over assumed to VS based on 1999 Ial LDV fuel use = umed 75% CNG u	to be LDV be three years 9 purchased (1 : 309 GGE base use	5/yr: AFV acqui 00% CNG per fled on FAST inpu 2001 Total	isition = 75% E leet mgr) ut for NETL-Pi AFV	itt DOE-owned ve 2002 Total	AFV	2003 Total		Total		Total	
Total   12   2781   556.2   1112.4   1688.6   2224.8		- All acqui - LDV turn - Mix of AF - Avg annu - FFVs ass	sitions assumed to Vs based on 1999 Ial LDV fuel use = umed 75% CNG to 2000 Total	to be LDV be three years 9 purchased (1 309 GGE base use	5/yr: AFV acqui 00% CNG per fl ed on FAST inpu 2001 Total 5	isition = 75% B leet mgr) ut for NETL-Pi  AFV 4	itt DOE-owned ve 2002 Total	AFV 4 AFV Refu	2003 Total 5	4	Total 5	4	Total 5	<u>4</u>
- Require gradually increasing FE consistent with FY02 and FY05 goals  - FY02 = 1.0 mpg increase  - FY03 = 2.0 mpg increase  - FY04 = 2.5 mpg increase  - FY04 = 2.5 mpg increase  - FY05 = 3.0 mpg increase  - FY05 = 3.0 mpg increase  - FY05 = 3.0 mpg increase  - Achieve increased FE through better selection of vehicle types, use of hybrids  - LDV turnover assumed to be five years  - Assume average new LDV in 1999 travels 6242 mil/rr based on 309 gal/vr and avg 20.2 mpg  - New LDV 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		- All acqui - LDV turn - Mix of AF - Avg annu - FFVs ass - FFVs ass	sitions assumed to Vs based on 1999 al LDV fuel use = umed 75% CNG u 2000 Total	to be LDV be three years 9 purchased (1 309 GGE base use	5/yr: AFV acqui 00% CNG per fl ed on FAST inpu 2001 Total 5 Total AF Us (GGE) in FY	isition = 75% B leet mgr) ut for NETL-Pi  AFV 4	itt DOE-owned ve 2002 Total	AFV 4  AFV Refu	2003 Total 5	4	Total 5	4	Total 5	
- FY01 = 0.5 mpa increase - FY03 = 2.0 mpa increase - FY03 = 2.0 mpa increase - FY04 = 2.5 mpa increase - FY05 = 3.0 mpa increase - FY05 = 3.0 mpa increase - FY05 = 3.0 mpa increase - Achieve increased FE through better selection of vehicle types, use of hybrids - LDV turnover assumed to be five years - Assume average new LDV in 1999 travels 6242 milyr based on 309 gallyr and avg 20.2 mpg  - FY01		- All acqui - LDV turn - Mix of AF - Avg annu - FFVs ass - LDV - MDV - HDV - Total AFV: - CNG	sitions assumed to ver assumed to vs based on 1999 al LDV fuel use = 2000 Total  s in Service in FY:	to be LDV be three years 9 purchased (1 309 GGE base use	5/yr: AFV acqui  00% CNG per fl ed on FAST inpu  2001 Total 5  Total AF Us  (GGE) in FY	isition = 75% B leet mgr) ut for NETL-Pi  AFV 4	itt DOE-owned ve 2002 Total	AFV 4  AFV Refu	2003 Total 5	FY01	Total 5	FY03	Total 5	<u>4</u>
- FY03 = 2.0 mpg increase - FY04 = 2.5 mpg increase - FY05 = 3.0 mpg increase - FY05 = 3.0 mpg increase - Achieve increased FE through better selection of vehicle types, use of hybrids - LDV turnover assumed to be five years - Assume average new LDV in 1999 travels \$242 milyr based on 309 gallyr and avg 20.2 mpg  - FY01	3. Fuel Eco	- All acqui - LDV turn - Mix of AF - Avq annu - FFVs ass  LDV MDV HDV  Total AFV:  CNG Total	sitions assumed to Vs based on 1999 tal LDV fuel use = umed 75% CNG t 2000 Total	to be LDV be three years g purchased (1 309 GGE base se  AFV 2005	5/yr: AFV acqui  00% CNG per fl ed on FAST inpu  2001  Total  5  Total AF Us  (GGE) in FY  2781	leet mgr) ut for NETL-Pi  AFV 4	2002 Total 5	AFV 4  AFV Refu	2003 Total 5	FY01	Total 5	FY03	Total 5	4 
- FY05 = 3.0 mpg increase - Achieve increased FE through better selection of vehicle types, use of hybrids - LDV turnover assumed to be five years - Assume average new LDV in 1999 travels 6242 milyr based on 309 gallyr and avg 20.2 mpg  FY01 FY02 FY03 FY04 FY05  New LDV 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3. Fuel Eco	- All acqui - LDV turn - Mix of AF - Avq annu - FFVs ass  LDV MDV HDV  Total AFV:  CNG Total	sitions assumed to Vs based on 199 tal LDV fuel us umed 75% CNG to 2000 Total  is in Service in FY: 12 12 12 12 13 13 13 14 15 15 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	no be LDV be three years purchased (1 309 GGE base see  AFV  2005	5/yr: AFV acqui  00% CNG per fl ed on FAST inpu  2001  Total  5  Total AF Us  (GGE) in FY  2781	leet mgr) ut for NETL-Pi  AFV 4	2002 Total 5	AFV 4  AFV Refu	2003 Total 5	FY01	Total 5	FY03	Total 5	4 
- Achieve increased FE through better selection of vehicle types, use of hybrids - LDV turnover assumed to be five years - Assume average new LDV in 1999 travels 6242 milyr based on 309 gallyr and avg 20.2 mpg  - FY01	3. Fuel Eco	- All acqui - LDV turn - Mix of AF - Avq annu - FFVs ass  LDV MDV HDV  Total AFV:  CNG Total	sitions assumed to Vs based on 1999 tal LDV fuel us umed 75% CNG to 2000 Total  is in Service in FY:  12 12 12 12 12 15 17 17 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19	no be LDV be three years 9 purchased (1 a 309 GGE base ase AFV  2005  ng FE consiste mpg increase mpg increase mpg increase	5/yr: AFV acqui  00% CNG per fl ed on FAST inpu  2001  Total  5  Total AF Us  (GGE) in FY  2781	leet mgr) ut for NETL-Pi  AFV 4	2002 Total 5	AFV 4  AFV Refu	2003 Total 5	FY01	Total 5	FY03	Total 5	4 
- Assume average new LDV in 1999 travels 6242 milyr based on 309 gallyr and avg 20.2 mpg  FY01 FY02 FY03 FY04 FY05  New LDV 1 1 1 1 1 1 1  qall.DV 302 294 281 275 269 New gal used 302 294 281 275 269 Gal saved in FY 7 15 28 34 40 Gal Saved Cum 7 22 50 84 124  Total gal saved in FY05 = 124 GGE  4. Fleet Efficiency Improvements  - Reduced vehicle trips - Increased vehicle loads - More use of higher FE - Assume overall two percent reduction in LDV fleet GGE from baseline  Covered Assumed 2% FY01 FY02 FY03 FY04 FY05  Baseline GGE Savings (GGE)  4.L PETROL FUEL REDUCTIONS FOR LOS ALAMOS STRATEGY  STRATEGY FUEL SAVED OPTION (GGE)  1 27	3. Fuel Eco	- All acqui - LDV turn - Mix of AF - Avq annu - FFVs ass  LDV MDV HDV  Total AFV:  CNG Total	sitions assumed to Vs based on 199/tal All LDV fuel use = umed 75% CNG t  2000 Total  s in Service in FY: 12 12 12 12 13 14 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	no be LDV be three years 9 purchased (1 3 309 GGE base se  AFV  2005  ng FE consiste mpg increase mpg increase mpg increase mpg increase	5/yr: AFV acqui  00% CNG per fl ed on FAST inpu  2001  Total  5  Total AF Us  (GGE) in FY  2781	leet mgr) ut for NETL-Pi  AFV 4	2002 Total 5	AFV 4  AFV Refu	2003 Total 5	FY01	Total 5	FY03	Total 5	4 
FY01   FY02   FY03   FY04   FY05	3. Fuel Eco	- All acqui - LDV turn - Mix of AF - Avq annu - FFVs ass  LDV MDV HDV  Total AFV: CNG Total nomy Increase - Require of	sitions assumed to Vs based on 199tata ILDV fuel use = umed 75% CNG t  2000 Total  is in Service in FY: 12 12 12 12 12 12 12 12 15 174 174 175 175 176 176 177 177 177 177 177 177 177 177	no be LDV be three years 9 purchased (1 309 GGE base se  AFV  2005  ng FE consists mpg increase	5/yr: AFV acqui 00% CNG per fl ed on FAST inpu 2001 Total 5  Total AF Us (GGE) in FY 2781 2781	leet mgr) ut for NETL-Pi  AFV 4  iee 05	2002 Total 5	AFV 4  AFV Refu	2003 Total 5	FY01	Total 5	FY03	Total 5	4 
New LDV	3. Fuel Eco	- All acqui - LDV turn - Mix of AF - Avq annu - FFVs ass  LDV MDV HDV  Total AFVs  CNG Total nomy Increase - Require of - Achieve - LDV turn	sitions assumed 10 Vs based on 1999 al LDV fuel use =  umed 75% CNG 1  2000 Total  S in Service in FY:  12 12 12 12 12 15 17(01 = 0.5: FY(02 = 1.0: FY(03 = 2.0: FY(04 = 0.5: FY(05 = 0.5:	no be LDV be three years purchased (1 309 GGE bases AFV  AFV  2005  ng FE consistempa increase mpa increase m	5/yr: AFV acqui 00% CNG per fl ed on FAST inpu 2001 Total 5  Total AF Us (GGE) in FY 2781 2781 ent with FY02 ar	isition = 75% E leet mgr) ut for NETL-Pi  AFV 4  ue 05	2002 Total 5	AFV 4  AFV Refurinfra (\$)  125000	2003 Total 5	FY01	Total 5	FY03	Total 5	4 
A	3. Fuel Eco	- All acqui - LDV turn - Mix of AF - Avq annu - FFVs ass  LDV MDV HDV  Total AFVs  CNG Total nomy Increase - Require of - Achieve - LDV turn	sitions assumed 10 Vs based on 1999 al LDV fuel use =  umed 75% CNG 1  2000 Total  S in Service in FY:  12 12 12 12 12 15 17(01 = 0.5: FY(02 = 1.0: FY(03 = 2.0: FY(04 = 0.5: FY(05 = 0.5:	no be LDV be three years 9 purchased (1 3 309 GGE base se  AFV  2005  ang FE consiste mpg increase mpg increase mpg increase mpg increase mpg increase mpg increase mpd increase mpd increase mpd increase in 1999 travels	5/yr: AFV acqui 00% CNG per fl ed on FAST inpu 2001 Total 5  Total AF Us (GGE) in FY 2781 2781 ent with FY02 ar	leet mgr) ut for NETL-Pi  AFV 4  use 005	2002 Total 5	AFV 4  AFV Refulnfra (\$)  125000	2003 Total 5	FY01	Total 5	FY03	Total 5	4 
Gal Saved Cum   7   15   28   34   40	3. Fuel Eco	- All acquire - LDV turn - Mix of AF - Avq annu - FFVs ass  LDV MDV HDV Total AFV: CNG Total nomy Increase - Require of - Achieve i - LDV turn - Assume	sitions assumed 10 Vs based on 1999 al LDV fuel use =  umed 75% CNG 1  2000 Total  S in Service in FY:  12 12 12 12 12 15 17(01 = 0.5: FY(02 = 1.0: FY(03 = 2.0: FY(04 = 0.5: FY(05 = 0.5:	no be LDV be three years 9 purchased (1 2 309 GGE base se  AFV  2005  Ing FE consiste mpg increase in 1999 travel: FY01 1	5/yr: AFV acqui 00% CNG per fl ed on FAST inpi 2001 Total 5  Total AF Us (GGE) in FY 2781 2781 ent with FY02 ar ection of vehicle 5 6242 mi/yr bas FY02 1	e types, use o sed on 309 gal	2002 Total 5  If hybrids  Wyr and avg 20.2  FY04	AFV Refu Infra (\$)  125000  mpg  FY05	2003 Total 5	FY01	Total 5	FY03	Total 5	4 
Total gal Saved Cum   7   22   50   84   124	3. Fuel Eco	- All acquire - LDV turn - Mix of AF - Avg ann - FFVs ass  LDV MDV - HDV  Total AFV: CNG Total - Require of - Achieve - LDV turn - Assume - Assume - New LDV  QuI/LDV	sitions assumed to Vs based on 199 al LDV fuel us umed 75% CNG u  2000 Total  s in Service in FY: 12 12 12 12 12 12 12 12 12 12 12 12 12	no be LDV be three years 9 purchased (1 309 GGE base see  AFV  2005  and FE consists mpg increase in fine fine fine fine fine fine fine fi	5/yr: AFV acqui 00% CNG per fl ed on FAST inpi 2001 Total 5  Total AF Us (GGE) in FY 2781 2781 ent with FY02 ar ection of vehicle 5 6242 mi/yr bas FY02 1 294	leet mgr) ut for NETL-Pi  AFV 4  ee 05  nd FY05 goals  e types, use o sed on 309 gal  FY03 1 281	2002 Total 5  If hybrids  Wyr and avg 20.2  FY04 1 275	AFV 4  AFV Reful Infra (\$) 125000  mpg FY05 1 269	2003 Total 5	FY01	Total 5	FY03	Total 5	4 
A. Fleet Efficiency Improvements   - Reduced vehicle trips   - Increased vehicle loads   - More use of higher FE   - Assume overall two percent reduction in LDV fleet GGE from baseline   - Assume overall two percent reduction in LDV fleet GGE from baseline   - FY01	3. Fuel Eco	- All acqui - LDV turn - Mix of AF - Avq annu - FFVs ass  LDV MDV HDV  Total AFV: CNG Total nomy Increase - Require of - Achieve - LDV turn - Assume New LDV qal/LDV New gal us	sitions assumed to Vs based on 199 tal LDV fuel use = umed 75% CNG t  2000 Total  s in Service in FY: 12 12 12 12 12 13 13 14 17 19 19 19 19 19 19 19 19 19 19 19 19 19	no be LDV be three years 9 purchased (1 309 GGE base see  AFV  2005  and FE consists mpg increase mpg increase mpg increase mpg increase mpg increase mpg increase in 1999 travels FY01 1 302 302	5/yr: AFV acqui 00% CNG per fl ed on FAST inpu 2001 Total 5  Total AF Us (GGE) in FY 2781 2781 ent with FY02 ar ection of vehicle 6 6242 mi/yr bas FY02 1 294 294 15	leet mgr) ut for NETL-Pi  AFV 4  iee 05  nd FY05 goals  e types, use o sed on 309 gal  FY03 1 281 281	2002 Total 5  If hybrids  Wyr and avg 20.2  FY04 1 275 275	AFV 4  AFV Refurinfra (\$) 125000  mpg FY05 1 269 269 40	2003 Total 5	FY01	Total 5	FY03	Total 5	4 
- Reduced vehicle trips - Increased vehicle loads - More use of higher FE - Assume overall two percent reduction in LDV fleet GGE from baseline  - Covered	3. Fuel Eco	- All acqui - LDV turn - Mix of AF - Avq annu - FFVs ass  LDV MDV HDV  Total AFV: CNG Total nomy Increase - Require of - LDV turn - Assume  New LDV gal/LDV New gal/LDV New gal/LDV Gal saved	sitions assumed to Vs based on 1999 tal LDV fuel use = umed 75% CNG t  2000 Total  S in Service in FY:  12 12 12 12 12 15 174 175 = FY01 = 0.5 176	no be LDV be three years purchased (1 309 GGE bases AFV  AFV  2005  Ing FE consiste mpg increase mpg increase mpg increase mpg increase mpg increase mpg increase in 1999 travels FY01  1 302 302 7	5/yr: AFV acqui 00% CNG per fl ed on FAST inpu 2001 Total 5  Total AF Us (GGE) in FY 2781 2781 ent with FY02 ar ection of vehicle 6 6242 mi/yr bas FY02 1 294 294 15	leet mgr) ut for NETL-Pi  AFV 4  iee 05  nd FY05 goals  e types, use o sed on 309 gal  FY03 1 281 281	2002 Total 5 f hybrids l/yr and avg 20.2 FY04 1 275 275 275	AFV 4  AFV Refurinfra (\$) 125000  mpg FY05 1 269 269 40	2003 Total 5	FY01	Total 5	FY03	Total 5	4 
- Reduced vehicle trips - increased vehicle loads - increased vehicle loads - More use of higher FE - Assume overall two percent reduction in LDV fleet GGE from baseline  - Covered	3. Fuel Eco	- All acqui - LDV turn - Mix of AF - Avq annu - FFVs ass  LDV MDV HDV  Total AFV:  CNG Total nomy Increase - Require of - LDV turn - Assume - New LDV gal/LDV New gal us Gal Saved	sitions assumed to Vs based on 1999 tal LDV fuel use = umed 75% CNG u  2000 Total  2000 Total  12 12 12 12 12 13 15 17 FY02 = 1.0 17 FY03 = 2.5 17 FY03 = 2.5 17 FY03 = 2.5 17 FY04 = 0.5 18 FY04 = 0.5 18 FY05 = 3.0 18 FY05 = 3.	no be LDV be three years purchased (1 309 GGE bases AFV  AFV  2005  Ing FE consiste mpg increase mpg increase mpg increase mpg increase mpg increase mpg increase in 1999 travels FY01  1 302 302 7	5/yr: AFV acqui 00% CNG per fl ed on FAST inpu 2001 Total 5  Total AF Us (GGE) in FY 2781 2781 ent with FY02 ar ection of vehicle 6 6242 mi/yr bas FY02 1 294 294 15	leet mgr) ut for NETL-Pi  AFV 4  AFV 505  and FY05 goals  e types, use o sed on 309 gal FY03 FY03 FY03 FY03 FY03 FY03 FY03 FY03	2002 Total 5 f hybrids //yr and avg 20.2 FY04 1 275 275 34 84	AFV 4  AFV Refurinfra (\$) 125000  mpg FY05 1 269 269 40	2003 Total 5	FY01	Total 5	FY03	Total 5	4 
- More use of higher FE - Assume overall two percent reduction in LDV fleet GGE from baseline  - Covered		- All acquire - LDV turn - Mix of AF - Avq annu - FFVs ass  LDV MDV HDV Total AFV: CNG Total nomy Increase - Require of - LDV turn - Assume - New LDV gal/LDV New gal us Gal saved Gal Saved Total as ved	sitions assumed to Vs based on 199 tal LDV fuel use = umed 75% CNG t  2000 Total  S in Service in FY: 12 12 12 12 13 13 14 15 17 17 19 19 19 19 19 19 19 19 19 19 19 19 19	no be LDV be three years purchased (1 309 GGE bases AFV  AFV  2005  Ing FE consiste mpg increase mpg increase mpg increase mpg increase mpg increase mpg increase in 1999 travels FY01  1 302 302 7	5/yr: AFV acqui 00% CNG per fl ed on FAST inpu 2001 Total 5  Total AF Us (GGE) in FY 2781 2781 ent with FY02 ar ection of vehicle 6 6242 mi/yr bas FY02 1 294 294 15	leet mgr) ut for NETL-Pi  AFV 4  AFV 505  and FY05 goals  e types, use o sed on 309 gal FY03 FY03 FY03 FY03 FY03 FY03 FY03 FY03	2002 Total 5 f hybrids //yr and avg 20.2 FY04 1 275 275 34 84	AFV 4  AFV Refur Infra (\$) 125000  mpg FY05 1 269 269 40	2003 Total 5	FY01	Total 5	FY03	Total 5	4 
- Assume overall two percent reduction in LDV fleet GGE from baseline    Covered		- All acqui - LDV turn - Mix of AF - Avq annu - FFVs ass  LDV MDV - HDV - Total AFV: - CNG - Total - Require of - Achieve - LDV turn - Assume - New LDV - Qal/LDV - New Qal us - Gal saved - Ciency Improve Aeduced	sitions assumed to Vs based on 199 tal LDV fuel use = umed 75% CNG t 2000 Total  s in Service in FY: 12 12 12 12 12 13 14 17 19 19 19 19 19 19 19 19 19 19 19 19 19	no be LDV be three years purchased (1 309 GGE bases AFV  AFV  2005  Ing FE consiste mpg increase mpg increase mpg increase mpg increase mpg increase mpg increase in 1999 travels FY01  1 302 302 7	5/yr: AFV acqui 00% CNG per fl ed on FAST inpu 2001 Total 5  Total AF Us (GGE) in FY 2781 2781 ent with FY02 ar ection of vehicle 6 6242 mi/yr bas FY02 1 294 294 15	leet mgr) ut for NETL-Pi  AFV 4  AFV 505  and FY05 goals  e types, use o sed on 309 gal FY03 FY03 FY03 FY03 FY03 FY03 FY03 FY03	2002 Total 5 f hybrids //yr and avg 20.2 FY04 1 275 275 34 84	AFV 4  AFV Refur Infra (\$) 125000  mpg FY05 1 269 269 40	2003 Total 5	FY01	Total 5	FY03	Total 5	4 
Baseline GGE		- All acqui - LDV turn - Mix of AF - Avg and - FFVs ass  LDV MDV - HDV - Total AFV: - CNG - Total - Require of - Achieve - LDV turn - Assume - Assume - All acquire of - All acquire of - Achieve - LDV turn - Assume - Total AFV: - All acquire of - Achieve - LDV turn - Assume - Total and - Achieve - LDV turn - Assume - Achieve - LDV turn - Assume - Require of - Achieve - LDV turn - Assume - Achieve - LDV turn - Assume - Reduced - Increase - Reduced - Increase	sitions assumed to Vs based on 199 al LDV fuel on 190 as in Service in FY;  2000 Total  s in Service in FY;  12 12 12 12 12 12 12 12 12 12 12 12 12	no be LDV be three years purchased (1 309 GGE bases AFV  AFV  2005  Ing FE consiste mpg increase mpg increase mpg increase mpg increase mpg increase mpg increase in 1999 travels FY01  1 302 302 7	5/yr: AFV acqui 00% CNG per fl ed on FAST inpu 2001 Total 5  Total AF Us (GGE) in FY 2781 2781 ent with FY02 ar ection of vehicle 6 6242 mi/yr bas FY02 1 294 294 15	leet mgr) ut for NETL-Pi  AFV 4  AFV 505  and FY05 goals  e types, use o sed on 309 gal FY03 FY03 FY03 FY03 FY03 FY03 FY03 FY03	2002 Total 5 f hybrids //yr and avg 20.2 FY04 1 275 275 34 84	AFV 4  AFV Refur Infra (\$) 125000  mpg FY05 1 269 269 40	2003 Total 5	FY01	Total 5	FY03	Total 5	4 
Baseline GGE		- All acqui - LDV turn - Mix of AF - Avq annu - FFVs ass  LDV MDV - HDV - Total AFVs - Total - Require of - Achieve - LDV turn - Assume - Assume - Assume - Achieve - LDV turn - Assume - Total - Achieve - LDV turn - Assume - Achieve - LDV turn - Assume - Reduire of	sitions assumed to Vs based on 199 tal LDV fuel use = umed 75% CNG t  2000 Total  s in Service in FY: 12 12 12 12 12 12 12 12 15 174 175 180 180 180 180 180 180 180 180 180 180	no be LDV be three years 9 purchased (1 3 309 GGE base see  AFV  2005  Ing FE consists mpg increase mpg increase mpg increase mpg increase mpg increase in 1999 travels FY01 1 302 7 7	5/yr: AFV acqui 00% CNG per fl ed on FAST input 2001 Total AF Us (GGE) in FY 2781 2781 ent with FY02 at ection of vehicle 1 6242 mi/yr bas FY02 1 294 294 294 294	e types, use o sed on 309 gal FY03 1 281 28 50 124	2002 Total 5 If hybrids Wyr and avg 20.2 FY04 1 275 34 84 GGE	AFV 4  AFV Refur Infra (\$) 125000  mpg FY05 1 269 269 40	2003 Total 5	FY01	Total 5	FY03	Total 5	4 
ALL PETROL FUEL REDUCTIONS FOR LOS ALAMOS STRATEGY  STRATEGY FUEL SAVED  OPTION (GGE)  1 27		- All acquired - LDV turn - Mix of AF - Avq annu - FFVs ass  LDV MDV - HDV - Total AFV: - CNG - Total - Required - Achieved - LDV turn - Assume - New LDV - Gal Saved - Gal Saved - Total Gal Saved - Company Increase - Required - LDV turn - Assume - Reduced - Increase - Reduced - Increase - More use - Assume	sitions assumed to Vs based on 199 tal LDV fuel use = umed 75% CNG t  2000 Total  s in Service in FY: 12 12 12 12 12 12 12 12 15 174 175 180 180 180 180 180 180 180 180 180 180	no be LDV be three years 9 purchased (1 309 GGE base AFV  AFV  2005  Ing FE consists Ing increase Ing increas	5/yr: AFV acqui  00% CNG per fl ed on FAST inpi  2001 Total 5  Total AF Us. (GGE) in FY  2781 2781 ent with FY02 ar  ection of vehicle 5 6242 mi/yr bas FY02 1 294 15 22  LDV fleet GGE	e types, use o sed on 309 gal FY03 1 281 28 50 124	2002 Total 5 If hybrids Wyr and avg 20.2 FY04 1 275 34 84 GGE	AFV 4  AFV Refulnfra (\$)  125000  mpg FY05 1 269 269 40 124	2003 Total 5	FY01 556.2	FY02 1112.4	FY03 1668.6	Total 5	4 
STRATEGY         FUEL SAVED           OPTION         (GGE)           1         27		- All acquired - LDV turn - Mix of AF - Avq annu - FFVs ass  LDV MDV - HDV - Total AFV: - CNG - Total - Required - Achieved - LDV turn - Assumed - Assumed - Total Saved	sitions assumed to Vs based on 199 tal LDV fuel use = umed 75% CNG L 2000 Total  2000 Total  12 12 12 12 12 13 13 14 16 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	no be LDV be three years 9 purchased (1 a 309 GGE base see  AFV  2005  AFV  AFV  AFV  AFV  AFV  AFV  AFV  AF	5/yr: AFV acqui 00% CNG per fl ed on FAST inpi 2001 Total AF Us (GGE) in FY 2781 2781 ent with FY02 ar ection of vehicle 8 6242 mi/yr bas FY02 1 294 294 295 22 LDV fleet GGE	e types, use o sed on 309 gal FY03 1 281 28 50 124	2002 Total 5 If hybrids Wyr and avg 20.2 FY04 1 275 34 84 GGE	AFV 4  AFV Refurinfra (\$) 125000  mpg FY05 1 269 269 40 124	2003 Total 5 eling	FY01 556.2 FY03	FY02  1112.4  FY04	FY03  1668.6	Total 5	4 
<u>OPTION (GGF)</u> 1 27	4. Fleet Effi	- All acquired - LDV turn - Mix of AF - Avq annu - FFVs ass  LDV MDV - MDV - HDV - Total AFV: - CNG - Total - Required - LDV turn - Assume - We LDV - New gal used and a saved - Total saved - Total saved - Company Increase - Required - LDV turn - Assume - Assume - Reduced - Increase - More use - Assume - Covered - Baseline G - 4,477	sitions assumed to Vs based on 1999 tal LDV fuel use = umed 75% CNG t  2000 Total  s in Service in FY;  12 12 12 12 12 12 12 12 12 12 12 12 12	no be LDV be three years 9 purchased (1 309 GGE base see  AFV  2005  AFV  AFV  AFV  AFV  AFV  AFV  AFV  AF	5/yr: AFV acqui 00% CNG per fl ed on FAST inpi 2001 Total AF Us (GGE) in FY 2781 2781 ent with FY02 ar ection of vehicle 8 6242 mi/yr bas FY02 1 294 294 295 22 LDV fleet GGE	e types, use o sed on 309 gal FY03 1 281 28 50 124	2002 Total 5 If hybrids Wyr and avg 20.2 FY04 1 275 34 84 GGE	AFV 4  AFV Refurinfra (\$) 125000  mpg FY05 1 269 269 40 124	2003 Total 5 eling	FY01 556.2 FY03	FY02  1112.4  FY04	FY03  1668.6	Total 5	4 
1 27	4. Fleet Effi	- All acquired - LDV turn - Mix of AF - Avg ann - FFVs ass  LDV MDV - MDV - Total AFV: - CNG - Total - Required - Achieve - LDV turn - Assume - Assume - Assume - All acquired - All acquired - All acquired - Achieve - LDV turn - Assume - Assume - Assume - All acquired - Achieve - LDV turn - Assume - Assume - Assume - Assume - Reduced - Increase - More use - Assume - Reduced - Increase - Assume - Assume - Assume - Assume - Reduced - Increase - Assume - Assume - Assume - Reduced - Increase - Assume - Assu	sitions assumed to Vs based on 199 tal LDV fuel use umed 75% CNG to 2000 Total  2000 Total  12 12 12 12 12 12 12 12 12 12 12 12 12	no be LDV be three years 9 purchased (1 309 GGE base 1399 Increase 1399 Increase 1399 Increase 1390 Increase 1499 Increase 1599 Increase 17 7 1 1 302 302 7 7 7 1 1 Assumed 2' Savinas (Gf 90 S STRATEGY	5/yr: AFV acqui 00% CNG per fl ed on FAST inpi 2001 Total AF Us (GGE) in FY 2781 2781 ent with FY02 ar ection of vehicle 8 6242 mi/yr bas FY02 1 294 294 295 22 LDV fleet GGE	e types, use o sed on 309 gal FY03 1 281 28 50 124	2002 Total 5 If hybrids Wyr and avg 20.2 FY04 1 275 34 84 GGE	AFV 4  AFV Refurinfra (\$) 125000  mpg FY05 1 269 269 40 124	2003 Total 5 eling	FY01 556.2 FY03	FY02  1112.4  FY04	FY03  1668.6	Total 5	4 
2 2781	4. Fleet Effi	- All acquired - LDV turn - Mix of AF - Avg ann - FFVs ass  LDV MDV - MDV - Total AFV: - CNG - Total - Required - Achieve - LDV turn - Assume - Assume - Assume - All acquired - All acquired - All acquired - Achieve - LDV turn - Assume - Assume - Assume - All acquired - Achieve - LDV turn - Assume - Assume - Assume - Assume - Reduced - Increase - More use - Assume - Reduced - Increase - Assume - Assume - Assume - Assume - Reduced - Increase - Assume - Assume - Assume - Reduced - Increase - Assume - Assu	sitions assumed to Vs based on 1999 tal LDV fuel use = umed 75% CNG t  2000 Total  s in Service in FY;  12 12 12 12 12 12 12 12 12 12 15 174 191 = 0.5 194 194 194 195 197 197 197 197 197 197 197 197 197 197	no be LDV be three years 9 purchased (1 309 GGE base 1399 Increase 1399 Increase 1399 Increase 1390 Increase 1499 Increase 1599 Increase 17 7 1 1 302 302 7 7 7 1 1 Assumed 2' Savinas (Gf 90 S STRATEGY	5/yr: AFV acqui 00% CNG per fl ed on FAST inpi 2001 Total AF Us (GGE) in FY 2781 2781 ent with FY02 ar ection of vehicle 8 6242 mi/yr bas FY02 1 294 294 295 22 LDV fleet GGE	e types, use o sed on 309 gal FY03 1 281 28 50 124	2002 Total 5 If hybrids Wyr and avg 20.2 FY04 1 275 34 84 GGE	AFV 4  AFV Refurinfra (\$) 125000  mpg FY05 1 269 269 40 124	2003 Total 5 eling	FY01 556.2 FY03	FY02  1112.4  FY04	FY03  1668.6	Total 5	4 
2 2/01 3 124	4. Fleet Effi	- All acquired - LDV turn - Mix of AF - Avg ann - FFVs ass  LDV MDV - MDV - Total AFV: - CNG - Total - Required - Achieve - LDV turn - Assume - Assume - Assume - All acquired - All acquired - All acquired - Achieve - LDV turn - Assume - Assume - Assume - All acquired - Achieve - LDV turn - Assume - Assume - Assume - Assume - Reduced - Increase - More use - Assume - Reduced - Increase - Assume - Assume - Reduced - Increase - Assume - Assume - Assume - Reduced - Increase - Assume - Assume - Reduced - Increase - Assume - Assume - Assume - Reduced - Increase - Assume - Assume - Assume - Assume - Reduced - Increase - Assume - Assume - Reduced - Increase - Assume - Assume - Reduced - Increase - Assume - Reduced - Increase - Assume - Assume - Reduced - Increase - Assume - Assume - Reduced - Increase - Assume - Assume - Reduced - Increase - Assume - Assume - Reduced - Increase - Reduced - Red	sitions assumed to Vs based on 1999 tal LDV fuel use = umed 75% CNG t  2000 Total  is in Service in FY;  12 12 12 12 12 12 12 12 12 12 12 12 12	no be LDV be three years 9 purchased (1 309 GGE base 1399 Increase 1399 Increase 1399 Increase 1390 Increase 1499 Increase 1599 Increase 17 7 1 1 302 302 7 7 7 1 1 Assumed 2' Savinas (Gf 90 S STRATEGY	5/yr: AFV acqui 00% CNG per fl ed on FAST inpi 2001 Total AF Us (GGE) in FY 2781 2781 ent with FY02 ar ection of vehicle 8 6242 mi/yr bas FY02 1 294 294 295 22 LDV fleet GGE	e types, use o sed on 309 gal FY03 1 281 28 50 124	2002 Total 5 If hybrids Wyr and avg 20.2 FY04 1 275 34 84 GGE	AFV 4  AFV Refurinfra (\$) 125000  mpg FY05 1 269 269 40 124	2003 Total 5 eling	FY01 556.2 FY03	FY02  1112.4  FY04	FY03  1668.6	Total 5	4 

# **NETL PITTSBURGH**

TOTAL

March   1961   1967   1968   1969	AL FUEL USE	1999 (GAL)	GOE	1999 NON-R GAL	COAD	GVI	1999 EXEMP	Т	TOTAL COS	2005 GOAL	-			
TOAN A-1008   1509				GAL	GGE	GAL 1,545	GGE 1545		9,270	GGE KEDUC	L			
TO DATA - AVEC 5    1920   192	DIESEL		606	-	_	-	-		606	1 975				
March   Marc			11,741		_		1,040		J.U. U	1.010				
March   Marc	ET DATA -VIDS	1999			2000						_			
MOD	I DV	INVENTOR	Y NEW TOTAL	NEW AFV	INVENTORY			INVENTORY						
ACT   100	MDV	7			5	1	0	5	1	0				
Compart Section   Compart Se					5	0	0	5	0	<u>U</u>				
## TFUEL COMMON (NEW ACQUISTORS) - EST Verbicle Data (2000)  **TEUR LOOK (NEW ACQUISTORS) - EST Verbicle Data (2000)  **Market Verbicle Verbicle Data (2000)  **Growth State (1900)  **G		GASOL				_	_		_	_ _				
True:   True	MDV	7	0	_						<u> </u>				
1989   1989			•	FAST Vehic	le Data (2000)	)				=				
S	Vehicle	Туре			1999	Fuel Econom	ny Info	Combined EE			_			
Science   Scie	wake	Model	Cylliders	Dilve	0	13	18	15	0	<b>-</b>				
S	Compac	t Sedan								_				
Section   Sect						16	20	18	0	<del>-</del>				
11								16 17						
1	CUIV				0	15	20	17	0					
15	<u>50V</u>				0									
Season   S						17	21	19	0					
From					v	10	19		<u></u> -					
From						Baseline Ave	rage FF		18.8					
Pued accoromy values from DOE fleet fael economy audies						FY2002 FE G	oal		19.8	_				
1.     1.							oal		21.8	_				
1. BIODIESEL USE  - Assume food constant firecount F72005  - F2005 F72005 F72005 GUIV F72005  F92005 F72005 F72005 GUIV F72005  F92005 F72005 F72005 GUIV F72005 F791 F992 F793 F794 F795  598 F89 F89 F89 F89 F89 F89 F89 F89 F89 F		* Fuel ecor	omy values fron	n DOE fleet fue	economy guide	9			<u> </u>					
1. BRODIESE LUSE  - Assume fold constraint Process F2005 F2005 F2006 F300 F500 F500 F500 F500 F500 F500 F500									_					
											_			
- Assums total conversion to R20 by F72005 F001 F702 F703 F704 F705 P705 Deset (oil) F2005 F12005 F1	1. BIODI	- NETL PIT			b press:=							<u> </u>		
Diesel (asil)   RZU BER (asil)   FUEL DISPL (QGE)   109		- Assume o	tiesel use remain otal conversion	to B20 by FY20	ough FY2005 05									
2. AFV ACQUISITIONS. VISS  - APV Acquisition access (c.15 miles) a CNS (co-site stow till) - APV Acquisition access (c.15 miles) a CNS (co-site stow till) - All acquisitions assumed to be LVV - All acquisitions assumed to be LVV - Any annual LVV till set as 300 discovered vehicles in F72000 - Any annual LVV till set as 300 discovered vehicles in F72000 - FFV assumed 175. CNS use  - 2000 2001 2001 2002 2003 AFV 1001 AFV 100	Diesel (g	gal) B20 USE (	al)	FUEL DISPL	005 _ (GGE)									
- AFV Refueling access (c.15 miles) a CNG (on-site slow (iii)) - Non-AEV accusation rates assumed to be five veers - 1- UV temover assumed to be five veers - 1- Wix nor AFV because on 1999 purchased (190°) CNG per feet mar) - Any annual LOV hely lace - 390 GGE based on 1979 purchased (190°) CNG per feet mar) - Any annual LOV hely lace - 390 GGE based on 1974 front of PATV for and AFV (190°) CNG per feet mar) - Any annual LOV hely lace - 390 GGE based on 1974 purchased (190°) CNG per feet mar) - 100	528	538		109			109	109	109	109	109			
LDV   5   4   5   5		- LDV turno - Mix of AF - Avg annu	over assumed to Vs based on 199 al LDV fuel use =	be five years 9 purchased (1 = 309 GGE base				/2000						
HDV		- LDV turno - Mix of AF - Avg annu	over assumed to Vs based on 199 al LDV fuel use = umed 75% CNG	be five years 9 purchased (1 = 309 GGE base use	00% CNG per fleed on FAST inpu	eet mgr) it for DOE-owne	d vehicles in F		2003	AEV	2004	AEV	2005	AEV
Total AFVs in Service in FY205   GGED in FY05   Infra (8)   FY01   FY02   FY03   FY04   FY05		- LDV turne - Mix of AF - Avg annu - FFVs ass	over assumed to Vs based on 199 al LDV fuel use = umed 75% CNG 2000 Total	be five years 9 purchased (1 = 309 GGE base use	00% CNG per fleed on FAST inpu 2001 Total	eet mgr) it for DOE-owne	d vehicles in F	AFV	Total		Total		Total	
CNG 20 4635 125000 927 1854 2781 3708 4635  Total 20 4635 927 1854 2781 3708 4635  3. Fuel Economy Increases - Require gradually increasing FE consistent with FY02 and FY05 goals - FY01 = 0.5 mpg increase - FY02 = 1.0 mpg increase - FY02 = 1.0 mpg increase - FY03 = 2.0 mpg increase - FY04 = 2.0 mpg incr		- LDV turne - Mix of AF - Avg annu - FFVs ass	over assumed to Vs based on 199 al LDV fuel use = umed 75% CNG 2000 Total	be five years 9 purchased (1 = 309 GGE base use	00% CNG per fleed on FAST inpu 2001 Total	eet mgr) it for DOE-owne	d vehicles in F	AFV	Total		Total		Total	
Total 20   4635   927   1854   2781   3708   4635		- LDV turn Mix of AF - Avg annu - FFVs ass  LDV MDV HDV	over assumed to Vs based on 199 al LDV fuel use a umed 75% CNG of 2000 Total 5	be five years 9 purchased (1 = 309 GGE base use AFV 4	00% CNG per fleted on FAST inpu  2001 Total 5	eet mgr) It for DOE-owne  AFV 4	d vehicles in F	AFV 4	Total 5	4	Total 5	4	Total 5	<u>4</u>
- Require gradually increasing FE consistent with FV02 and FY05 goals - FY01 - 10.5 mpg increase - FY02 - 10. mpg increase - FY03 - 20. mpg increase - FY03 - 20. mpg increase - FY04 - 25. mpg increase - Achieve increase FE fit from the better increase FE fit from the bett		- LDV turn - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV Total AFVs	over assumed to Vs based on 199 al LDV fuel use a umed 75% CNG of 2000 Total 5	be five years 9 purchased (1 = 309 GGE base use AFV 4	2001 Total AF Use	eet mgr) It for DOE-owne  AFV 4	d vehicles in F	AFV 4  AFV Refueling Infra (\$)	Total 5	4	Total 5	4	Total 5	<u>4</u>
- Require gradually increasing FE consistent with FV02 and FY05 goals  - FY01 = 1.0 mps increase - FY02 = 1.0 mps increase - FY03 = 2.0 mps increase - FY04 = 2.5 mps increase - FY05 = 2.5 mps increase - Achieve increased FE from the bettier of wholids - LDV turnover assumed to be five years - Assume average new LDV in 1999 travels 5807 milyr based on 309 gallyr and avg 18.8 mpg  - FY01		- LDV turn - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV Total AFVs	over assumed to Vs based on 199 al LDV fuel use : umed 75% CNG i  2000 Total 5	be five years 9 purchased (1 = 309 GGE base use AFV 4	2001 Total AF Use (GGE) in FY0	eet mgr) It for DOE-owne  AFV 4	d vehicles in F	AFV 4  AFV Refueling Infra (\$)	Total 5	FY01	Total 5	4 FY03	Total 5	4  FY05
- FY02 = 1.0 mpg increase - FY03 = 2.0 mpg increase - FY04 = 2.5 mpg increase - FY08 = 2.5 mpg increase - FY08 = 3.0 mpg increase - Achieve increased FE through better selection of vehicle types, use of hybrids - LDV turnover assumed to be five years - Assume average new LDV in 1990 travels \$80° milyr based on 309 gallyr and avg 18.8 mpg - Assume average new LDV in 1990 travels \$80° milyr based on 309 gallyr and avg 18.8 mpg - Assume average new LDV in 1990 travels \$80° milyr based on 309 gallyr and avg 18.8 mpg - Assume average new LDV in 1990 travels \$80° milyr based on 309 gallyr and avg 18.8 mpg - Assume average new LDV in 1990 travels \$80° milyr based on 309 gallyr and avg 18.8 mpg - RY04	3 Fuel F	LDV turn - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV  Total AFVs  CNG Total	over assumed to Vs based on 199 al LDV fuel use : umed 75% CNG i  2000 Total 5 in Service in FY  20 20	be five years 9 purchased (1 = 309 GGE base use AFV 4	2001 Total AF Use (GGE) in FY0	eet mgr) It for DOE-owne  AFV 4	d vehicles in F	AFV 4  AFV Refueling Infra (\$)	Total 5	FY01	Total 5	4 FY03	Total 5	4  FY05
- FY03 = 2.0 mpg increases - FY04 = 2.5 mpg increases - FY05 = 3.0 mpg increases - FY06 = 3.0 mpg increased = - Achieve increased Ft through better selection of vehicle types, use of hybrids - LDV turnover assumed to be five years - Assume average new LDV in 1999 travels \$807 milyr based on 309 gallyr and avg 18.8 mpg Assume average new LDV in 1999 travels \$807 milyr based on 309 gallyr and avg 18.8 mpg Assume average new LDV in 1999 travels \$807 milyr based on 309 gallyr and avg 18.8 mpg Assume over all the first and the first an	3. Fuel E	LDV turn - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV Total AFVs CNG Total	over assumed to Vs based on 199 al LDV fuel use a umed 75% CNG or Total 5 in Service in FY 20 20 20 s aratually increas	be five years 9 purchased in a 309 GGE base use  AFV 4  2005	200% CNG per fleted on FAST inputed on FAST inputed on FAST inputed in FAST in	eet mgr) It for DOE-owne  AFV 4	d vehicles in F	AFV 4  AFV Refueling Infra (\$)	Total 5	FY01	Total 5	4 FY03	Total 5	4  FY05
- FY05 = 3.0 mpa increase  - Achieve increased Ft through better selection of vehicle types, use of hybrids  - LDV turnover assumed to be five years  - Assume average new LDV in 1999 travels 5807 milyr based on 309 gal/yr and avg 18.8 mpg  - Reverse average new LDV in 1999 travels 5807 milyr based on 309 gal/yr and avg 18.8 mpg  - FY01	3. Fuel £	LDV turn - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV Total AFVs CNG Total	over assumed to Vs based on 199 al LDV fuel use 2 umed 75% CNG 100 Total 5 umed 75% CNG 100 Total 5 umed 75% CNG 100 Service in FY 20 20 Service in FY 20 20 Service in FY 20 5 Service in FY 20 5 Service in FY 20 10 Service in FY 20 Ser	be five years purchased (1 2009 GGE base  AFV 4  2005	200% CNG per fleted on FAST inputed on FAST inputed on FAST inputed in FAST in	eet mgr) It for DOE-owne  AFV 4	d vehicles in F	AFV 4  AFV Refueling Infra (\$)	Total 5	FY01	Total 5	4 FY03	Total 5	4  FY05
- LDV turnover assumed to be five years  - Assume average new LDV in 1 spot stravels 5807 milyr based on 309 gal/yr and avg 18.8 mps  - Rew LDV	3. Fuel E	LDV turn - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV Total AFVs CNG Total	over assumed to Vs based on 199 al LDV fuel use a umed 75% CNG i 2000 Total 5 5 iii Service in FY 20 20 s s radually increas - FY01 = 0.5 - FY02 = 1.0 . FY03 = 2.0	be five years purchased (1) 309 GGE base see  AFV 4  2005	200% CNG per fleted on FAST inputed on FAST inputed on FAST inputed in FAST in	eet mgr) It for DOE-owne  AFV 4	d vehicles in F	AFV 4  AFV Refueling Infra (\$)	Total 5	FY01	Total 5	4 FY03	Total 5	4  FY05
- Assume average new LDV in 1999 travels 5807 milyr based on 309 gallyr and avg 18.8 mpg    FY01	3. Fuel E	LDV turn - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV  Total AFVs CNG Total - Require c	over assumed to Vs based on 199 al LDV fuel use a umed 75% CNG i 2000 Total 5 5 iii Service in FY 20 20 s s radually increas -FY01 = 0.5 -FY02 = 1.0 -FY03 = 2.0 -FY04 = 2.5 -FY05 = 3.0	be five years purchased (1) 309 GGE base use  AFV 4  2005  Ing FE consiste mpg increase	2001 Total AF Use (GGE) in FY0 4635 4635 ent with FY02 an	AFV 4 9 9 105	d vehicles in F	AFV 4  AFV Refueling Infra (\$)	Total 5	FY01	Total 5	4 FY03	Total 5	4  FY05
New LDV	3. Fuel E	LDV turm - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV  Total AFVs CNG Total  Economy Increase - Require of - Achieve i - LDV turm	over assumed to Vs based on 199 al LDV fuel use a LIME of 75% CNG of Total 5 superson 199 al LDV fuel use a LIME of 75% CNG of Total 5 superson 199 al LDV fuel use a LIME of Total 5 superson 199 al LDV fuel use a LIME of Total 5 superson 199 al LDV fuel use a LIME of Total 199 al L	be five years purchased (1) 309 GGE base use  AFV 4  2005  ing FE consists mpg increase upg increase	2001 Total AF Use (GGE) in FY0 4635 4635 ent with FY02 an	AFV 4 2 3 3 3 4 4 4 4 4 5 5 5 5 6 6 6 7 7 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8	d vehicles in F	AFV 4  AFV Refueling Infra (\$)  125000	Total 5	FY01	Total 5	4 FY03	Total 5	4  FY05
Gal/LDV   301   293   279   273   266     New gal used   301   293   279   273   266     Gal saved in FY   8   16   30   36   43     Gal Saved Cum   8   24   53   90   132     Total gal saved in FY05 =   132   GGE	3. Fuel E	LDV turm - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV  Total AFVs CNG Total  Economy Increase - Require of - Achieve i - LDV turm	over assumed to Vs based on 199 al LDV fuel use a LIME of 75% CNG of Total 5 sure of Total 5 s	be five years purchased (1) 309 GGE base use  AFV 4  2005  ing FE consists mpg increase upg increase	2001 Total AF Use (GGE) in FY0 4635 4635 ent with FY02 an	AFV 4 2 3 3 3 4 4 4 4 4 5 5 5 5 6 6 6 7 7 7 8 7 8 8 8 8 8 8 8 8 8 8 8 8	d vehicles in F	AFV 4  AFV Refueling Infra (\$)  125000	Total 5	FY01	Total 5	4 FY03	Total 5	4  FY05
New gal used   301   293   279   273   266	3. Fuel E	LDV UNIX of AF - Avg annu - FFVs ass  LDV MDV HDV  Total AFVs CNG Total - Require c - Achieve i - LDV Unix of AF	over assumed to Vs based on 199 al LDV fuel use a LIME of 75% CNG of Total 5 sure of Total 5 s	be five years purchased (1) 309 GGE base see  AFV 4  2005  ing FE consiste mpg increase mpg increase mpg increase mpg increase mpg increase ugh better sel be five years in 1999 travels FY01	200% CNG per file ed on FAST inpu  2001 Total 5  Total AF Use (GGE) in FYG 4635 4635 4635 ent with FY02 an	AFV 4  a 905  and FY05 qoals  etypes, use of hed on 309 gal/yr FY03	2002 Total 5  ybrids and avg 18.8.n	AFV 4  AFV Refuelint Infra (\$) 125000	Total 5	FY01	Total 5	4 FY03	Total 5	4  FY05
Gal Saved Cum   8   24   53   90   132	3. Fuel E	LDV turn - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV  Total AFVs CNG Total  Economy Increase - Require c - Achieve i - LDV turn - Assume i	over assumed to Vs based on 199 al LDV fuel use a LIME of 75% CNG of Total 5 sure of Total 5 s	be five years purchased (1 2009 GGE base  AFV 4  2005  ing FE consists mpg increase mpg increase mpg increase mpg increase mpg increase in 1999 travels FY01 1	2001 Total AF Use (GGE) in FY0 4635 4635 ent with FY02 an	AFV 4  2 2 55  2 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	d vehicles in F	AFV 4  AFV Refueling Infra (\$)  125000	Total 5	FY01	Total 5	4 FY03	Total 5	4  FY05
4. Fleet Efficiency Improvements  - Reduced vehicle trips - Increased vehicle loads - More use of higher FE - Assume overall two percent reduction in LDV fleet GGE from baseline	3. Fuel E	- LDV turm - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV  Total AFVs  CNG Total  Economy Increase - Require c  - Achieve i - LDV turm - Assume i  New LDV qal/LDV New qal us	over assumed to Vs based on 199 al LDV fuel use 2 umed 75% CNG 1 2000 Total 5  in Service in FY 20 20 20 S s radually increas FY01 = 0.5 FY02 = 1.0 FY03 = 2.0 FY03 = 2.0 FY05 = 3.0 ncreased FE have been sumed to verage new LDV ed	be five years purchased (1 2009 GGE base  AFV 4  2005  ing FE consists mpg increase mpg increase mpg increase mpg increase mpg increase in 1999 travels FY01 1 301 301	2001 Total AF Use (GGE) in FYC 4635 4635 ent with FY02 an 2807 mi/yr base FY02 1 293 293	AFV 4  AFV 5  Set types, use of hed on 309 gal/yr FY03 1 279 279	ybrids and avg 18.8 n FY04 1 273 273	AFV 4  AFV Refueling Infra (\$) 125000	Total 5	FY01	Total 5	4 FY03	Total 5	4  FY05
4. Fleet Efficiency Improvements  - Reduced vehicle trips - Increased vehicle loads - More use of higher FE - Assume overall two percent reduction in LDV fleet GGE from baseline	3. Fuel E	- LDV turn - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV  Total AFVs CNG Total  - Require c - Require c - LDV turn - Assume a  New LDV gal/LDV New gal us Gal saved	over assumed to Vs based on 199 al LDV fuel use a Lmed 75% CNG of 1900 Total 5    in Service in FY    20	be five years purchased (1) 309 GGE base  AFV 4  2005  ing FE consists mpg increase mpg increase mpg increase mpg increase mpg increase ing increase mpg increase ing increase ing increase in 1999 travels FV01  1 301 301 301 8	2001 Total AF Use (GGE) in FYO 4635 4635 ent with FYO2 an ection of vehicle 5 5807 mi/yr bass FYO2 1 293 293 16	AFV 4 29 30 at FY05 goals 2 types, use of h ed on 309 gal/yr FY03 1 279 279 30	ybrids and avg 18.8 n FY04 1 273 273 273	AFV 4  AFV Refueling Infra (\$)  125000  125000  FY05  1 266 266 243	Total 5	FY01	Total 5	4 FY03	Total 5	4  FY05
- Reduced vehicle trips - Increased vehicle loads - More use of higher FE - Assume overall two percent reduction in LDV fleet GGE from baseline  - Covered	3. Fuel E	- LDV turm - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV  Total AFVs CNG Total  - CNG Total  - Require c - Require c - LDV turm - Assume a  New LDV Qal/LDV New gal us Gal Saved	over assumed to Vs based on 199 al LDV fuel use a LIME 75% CNG of Total 5 and Service in FY 20 20 and	be five years purchased (1) 309 GGE base  AFV 4  2005  ing FE consists mpg increase mpg increase mpg increase mpg increase mpg increase ing increase mpg increase ing increase ing increase in 1999 travels FV01  1 301 301 301 8	2001 Total AF Use (GGE) in FYO 4635 4635 ent with FYO2 an ection of vehicle 5 5807 mi/yr bass FYO2 1 293 293 16	AFV 4  29 25 21 types, use of hed on 309 gal/yr FY03 1 279 279 279 30 53	ybrids and avg 18.8 m FY04 1 273 273 273 36 90	AFV 4  AFV Refueling Infra (\$)  125000  125000  FY05  1 266 266 243	Total 5	FY01	Total 5	4 FY03	Total 5	4  FY05
- More use of higher FE - Assume overall two percent reduction in LDV fleet GGE from baseline  - Covered		- LDV turn - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV Total AFVs CNG Total - Require c - Require c - LDV turn - Assume a New LDV gal/LDV New gal us Gal saved Gal Saved	over assumed to Vs based on 199 al LDV fuel use a umed 75% CNG of Total 5 and	be five years purchased (1) 309 GGE base  AFV 4  2005  ing FE consists mpg increase mpg increase mpg increase mpg increase mpg increase ing increase mpg increase ing increase ing increase in 1999 travels FV01  1 301 301 301 8	2001 Total AF Use (GGE) in FYO 4635 4635 ent with FYO2 an ection of vehicle 5 5807 mi/yr bass FYO2 1 293 293 16	AFV 4  29 25 21 types, use of hed on 309 gal/yr FY03 1 279 279 279 30 53	ybrids and avg 18.8 m FY04 1 273 273 273 36 90	AFV 4  AFV Refueling Infra (\$)  125000  125000  FY05  1 266 266 243	Total 5	FY01	Total 5	4 FY03	Total 5	4  FY05
- Assume overall two percent reduction in LDV fleet GGE from baseline    Covered		- LDV turn - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV Total AFVs CNG Total - Require c - Require c - LDV turn - Assume i New LDV gal/LDV New gal us Gal saved Gal Saved Total qal s  Efficiency Improve - Reduced	over assumed to Vs based on 199 al LDV fuel use a umed 75% CNG of 199 al LDV fuel use a umed 75% CNG of 199 al LDV fuel use a umed 75% CNG of 199 al LDV fuel use a umed 75% CNG of 199 al LDV fuel use a umed 199 al LDV fuel use un umed 199 al LDV fuel use a umed 199 al LDV fuel use a umed 19	be five years purchased (1) 309 GGE base  AFV 4  2005  ing FE consists mpg increase mpg increase mpg increase mpg increase mpg increase ing increase mpg increase ing increase ing increase in 1999 travels FV01  1 301 301 301 8	2001 Total AF Use (GGE) in FYO 4635 4635 ent with FYO2 an ection of vehicle 5 5807 mi/yr bass FYO2 1 293 293 16	AFV 4  29 25 21 types, use of hed on 309 gal/yr FY03 1 279 279 279 30 53	ybrids and avg 18.8 m FY04 1 273 273 273 36 90	AFV 4  AFV Refueling Infra (\$)  125000  125000  FY05  1 266 266 243	Total 5	FY01	Total 5	4 FY03	Total 5	4  FY05
Baseline GGE		- LDV turn - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV Total AFVs CNG Total - Require c - Require c - LDV turn - Assume i  New LDV gal/LDV New gal us Gal Saved Gal Saved Total qad s  Efficiency Improv - Reduced - Increase - Reduced - Increase	over assumed to Very Says on 199 al LDV fuel use a sumed 75% CNG of 199 al LDV fuel use a sumed 75% CNG of 199 al LDV fuel use a sumed 75% CNG of 199 al LDV fuel use a sumed 199 al LDV fuel use a su	be five years purchased (1 2009 GGE base  AFV 4  2005  ing FE consists mpg increase mpg increase mpg increase mpg increase in 1999 travels FY01 1 301 301 8 8	2001 Total AF Use (GGE) in FYC 4635 4635 4635 ent with FY02 an 2001 Total AF Use (GGE) in FYC 2001 Total AF Use (GGE) in FYC 2001 2001 2001 2001 2001 2001 2001 200	AFV 4  AFV 5  and FY05 goals  at types, use of hed on 309 gal/yr FY03 1 279 279 30 53	ybrids and avg 18.8 m FY04 1 273 273 273 36 90	AFV 4  AFV Refueling Infra (\$)  125000  125000  FY05  1 266 266 243	Total 5	FY01	Total 5	4 FY03	Total 5	4  FY05
Baseline GGE		- LDV turn - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV Total AFVs CNG Total - Require c - Require c - LDV turn - Assume i  New LDV gal/LDV New gal us Gal Saved Gal Saved Total qad s  Efficiency Improv - Reduced - Increase - Reduced - Increase	over assumed to Very Says on 199 al LDV fuel use a sumed 75% CNG of 199 al LDV fuel use a sumed 75% CNG of 199 al LDV fuel use a sumed 75% CNG of 199 al LDV fuel use a sumed 199 al LDV fuel use a su	be five years purchased (1 2009 GGE base  AFV 4  2005  ing FE consists mpg increase mpg increase mpg increase mpg increase in 1999 travels FY01 1 301 301 8 8	2001 Total AF Use (GGE) in FYC 4635 4635 4635 ent with FY02 an 2001 Total AF Use (GGE) in FYC 2001 Total AF Use (GGE) in FYC 2001 2001 2001 2001 2001 2001 2001 200	AFV 4  AFV 5  and FY05 goals  at types, use of hed on 309 gal/yr FY03 1 279 279 30 53	ybrids and avg 18.8 m FY04 1 273 273 273 36 90	AFV 4  AFV Refueling Infra (\$)  125000  125000  FY05  1 266 266 243	Total 5	FY01	Total 5	4 FY03	Total 5	4  FY05
9,876 198 40 79 119 158 198  ALL PETROL FUEL REDUCTIONS FOR LOS ALAMOS STRATEGY  STRATEGY FUEL SAVED OPTION (GGE)  1 109 2 4635 3 132		- LDV turn - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV Total AFVs CNG Total - Require c - Require c - LDV turn - Assume a Gal Saved Gal Saved Total qal s Efficiency Improv - Reduced - Increase - More use - Assume a	over assumed to Very Says on 199 al LDV fuel use a sumed 75% CNG of 199 al LDV fuel use a sumed 75% CNG of 199 al LDV fuel use a sumed 75% CNG of 199 al LDV fuel use a sumed 199 al LDV fuel use a su	be five years purchased (1 = 309 GGE base use  AFV 4  2005  Ing FE consists pug increase pug increase mpg increase mpg increase mpg increase in increase mpg increase mpg increase in 1999 travels FY01 1 301 301 301 8 8	2001 Total AF Use (GGE) in FY0 4635 4635 ent with FY02 an ection of vehicle 3 5807 mi/yr base FY02 1 293 293 293 16 24	AFV 4  AFV 5  and FY05 goals  at types, use of hed on 309 gal/yr FY03 1 279 279 30 53	ybrids and avg 18.8 m FY04 1 273 273 273 36 90	AFV 4  AFV Refueling Infra (\$)  125000	Total 5	FY01 927	Total 5  FY02  1854	FY03 2781	Total 5	4  FY05
STRATEGY FUEL SAVED OPTION (GGE)  1 109 2 4635 3 132		- LDV turn - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV Total AFVs CNG Total - Require c - Require c - LDV turn - Assume a Gal Saved Gal Saved Total gals - Reduced - Increase - More use - Assume c	over assumed to Vs based on 199 al LDV fuel use a umed 75% CNG in 2000 Total 5 5	be five years purchased (1 = 309 GGE base use  AFV 4  2005  Ing FE consists mpg increase mpg inc	2001 Total AF Use (GGE) in FY0 4635 4635 4635 ent with FY02 an  Exercise of vehicle 3 5807 mi/yr bass FY02 1 1 293 293 16 24 LDV fleet GGE f	AFV 4  AFV 5  and FY05 goals  at types, use of hed on 309 gal/yr FY03 1 279 279 30 53	ybrids and avg 18.8 m FY04 1 273 273 273 36 90	AFV 4  AFV Refuelinc Infra (\$)  125000	Total 5	FY01 927 FY03	Total 5  FY02  1854  FY04	FY03  2781  FY05	Total 5	4  FY05
OPTION (GGE)  1 109 2 4635 3 132		- LDV turn - Mix of AF - Avg annu - FFVs ass  LDV MDV HDV Total AFVs CNG Total - Require c - Require c - LDV turn - Assume a Gal Saved Gal Saved Total gals - Reduced - Increase - More use - Assume c	over assumed to Vs based on 199 al LDV fuel use a umed 75% CNG in 2000 Total 5 5	be five years purchased (1 2009 GGE base use  AFV 4  2005  AFV 4  AFV AFV AFV AFV AFV AFV AFV AFV AFV AF	2001 Total AF Use (GGE) in FY0 4635 4635 4635 ent with FY02 an  Exercise of vehicle 3 5807 mi/yr bass FY02 1 1 293 293 16 24 LDV fleet GGE f	AFV 4  AFV 5  and FY05 goals  at types, use of hed on 309 gal/yr FY03 1 279 279 30 53	ybrids and avg 18.8 m FY04 1 273 273 273 36 90	AFV 4  AFV Refuelinc Infra (\$)  125000	Total 5	FY01 927 FY03	Total 5  FY02  1854  FY04	FY03  2781  FY05	Total 5	4  FY05
1 109 2 4635 3 132	4. Fleet	- LDV turn - Mix of AF - Avg annu - FFVs ass  LDV - MDV - HDV - Total AFVs - CNG - Total - Require c - LDV turn - Assume a - Reduced - Gal Saved - Total gal s - Efficiency Improve - Reduced - Increase - Assume a	over assumed to Vs based on 199 al LDV fuel use a LIME of 15% CNG of 1000 Total 5    in Service in FY   20	be five years purchased (1 = 309 GGE base use  AFV 4  2005  AFV 2005  AFV 4  AFV AFV AFV AFV AFV AFV AFV AFV AFV AF	2001 Total AF Use (GGE) in FY0 4635 4635 4635 ent with FY02 an  Exercise of vehicle 3 5807 mi/yr bass FY02 1 1 293 293 16 24 LDV fleet GGE f	AFV 4  AFV 5  and FY05 goals  at types, use of hed on 309 gal/yr FY03 1 279 279 30 53	ybrids and avg 18.8 m FY04 1 273 273 273 36 90	AFV 4  AFV Refuelinc Infra (\$)  125000	Total 5	FY01 927 FY03	Total 5  FY02  1854  FY04	FY03  2781  FY05	Total 5	4  FY05
2 4635 3 132	4. Fleet  ALL PETROL FUI	- LDV turn - Mix of AF - Avg annu - FFVs ass  LDV - MDV - HDV - Total AFVs - CNG - Total - Require of - Achieve i - LDV turn - Assume of - Assume of - Achieve i - LDV turn - Assume of - Assume of - Achieve i - LDV turn - Assume of - A	over assumed to Vs based on 199 al LDV fuel use :  Jane 175% CNG   Jane 175% C	be five years purchased (1 2009 GGE base use  AFV 4  2005  AFV 4	2001 Total AF Use (GGE) in FY0 4635 4635 4635 ent with FY02 an  Exercise of vehicle 3 5807 mi/yr bass FY02 1 1 293 293 16 24 LDV fleet GGE f	AFV 4  AFV 5  and FY05 goals  at types, use of hed on 309 gal/yr FY03 1 279 279 30 53	ybrids and avg 18.8 m FY04 1 273 273 273 36 90	AFV 4  AFV Refuelinc Infra (\$)  125000	Total 5	FY01 927 FY03	Total 5  FY02  1854  FY04	FY03  2781  FY05	Total 5	4  FY05
3 132	4. Fleet  ALL PETROL FUI	- LDV turn - Mix of AF - Avg annu - FFVs ass  LDV - MDV - HDV - Total AFVs - CNG - Total - Require of - Achieve i - LDV turn - Assume of - Assume of - Achieve i - LDV turn - Assume of - Assume of - Achieve i - LDV turn - Assume of - A	over assumed to Vs based on 199 al LDV fuel use: a limed 75% CNG in 2000 Total 5  in Service in FY  20 20 20 20 20 20 20 20 20 20 20 20 20 2	be five years purchased (1 2009 GGE base use  AFV 4  2005  AFV 4	2001 Total AF Use (GGE) in FY0 4635 4635 4635 ent with FY02 an  Exercise of vehicle 3 5807 mi/yr bass FY02 1 1 293 293 16 24 LDV fleet GGE f	AFV 4  AFV 5  and FY05 goals  at types, use of hed on 309 gal/yr FY03 1 279 279 30 53	ybrids and avg 18.8 m FY04 1 273 273 273 36 90	AFV 4  AFV Refuelinc Infra (\$)  125000	Total 5	FY01 927 FY03	Total 5  FY02  1854  FY04	FY03  2781  FY05	Total 5	4  FY05
	4. Fleet  ALL PETROL FUI  STRATE OPTION 1	- LDV turn - Mix of AF - Avg annu - FFVs ass  LDV - MDV - HDV - Total AFVs - CNG - Total - Require of - Achieve i - LDV turn - Assume of - Assume of - Achieve i - LDV turn - Assume of - Assume of - Achieve i - LDV turn - Assume of - A	over assumed to Vs based on 199 al LDV fuel use a LIME of 195% CNG in Service in FY 20 20 5 and LDV fuel use a LIME of 195% CNG in Service in FY 20 20 5 and LDV fuel use a	be five years purchased (1 2009 GGE base use  AFV 4  2005  AFV 4	2001 Total AF Use (GGE) in FY0 4635 4635 4635 ent with FY02 an  Exercise of vehicle 3 5807 mi/yr bass FY02 1 1 293 293 16 24 LDV fleet GGE f	AFV 4  AFV 5  and FY05 goals  at types, use of hed on 309 gal/yr FY03 1 279 279 30 53	ybrids and avg 18.8 m FY04 1 273 273 273 36 90	AFV 4  AFV Refuelinc Infra (\$)  125000	Total 5	FY01 927 FY03	Total 5  FY02  1854  FY04	FY03  2781  FY05	Total 5	4  FY05
TOTAL 5.074	4. Fleet  ALL PETROL FUI  STRATE OPTION  1 2 3 4	- LDV turn - Mix of AF - Avg annu - FFVs ass  LDV - MDV - HDV - Total AFVs - CNG - Total - Require of - Achieve i - LDV turn - Assume of - Assume of - Achieve i - LDV turn - Assume of - Assume of - Achieve i - LDV turn - Assume of - A	over assumed to Vs based on 199 al LDV fuel use : umed 75% CNG in 2000 Total 5  in Service in FY 20 20 20 20 20 20 20 20 20 20 20 20 20	be five years purchased (1 2009 GGE base use  AFV 4  2005  AFV 4	2001 Total AF Use (GGE) in FY0 4635 4635 4635 ent with FY02 an  Exercise of vehicle 3 5807 mi/yr bass FY02 1 1 293 293 16 24 LDV fleet GGE f	AFV 4  AFV 5  and FY05 goals  at types, use of hed on 309 gal/yr FY03 1 279 279 30 53	ybrids and avg 18.8 m FY04 1 273 273 273 36 90	AFV 4  AFV Refuelinc Infra (\$)  125000	Total 5	FY01 927 FY03	Total 5  FY02  1854  FY04	FY03  2781  FY05	Total 5	4  FY05

# **NEVADA TEST SITE**

L FUEL	USE - Fleet	1999		1999 NON-R	NAD		1999 EXEMPT	7		2005 GOAL					
		(GAL)	GGE	GAL	GGE	GAL	GGE		TOTAL GGE	GGE REDUCT	<del>-</del>				
	GASOL DIESEL	1,127,100 507,280	1,127,100 581,850	355,096	407,295	12348	12348		1,114,752 174,555	_					
	TOTAL		1.708.950		407.295		12,348		1.289.307	257.861					
T DATA	A-VIDS	1999			2000			2001			_				
	LDV	INVENTORY 1040	NEW TOTAL 100	NEW AFV 20		NEW TOTAL 232	NEW AFV 91		NEW TOTAL 100	NEW AFV 20					
	MDV HDV	170 257	0	0	169 256	1	0	200	0	0					
	AFV	111 GASOL	DIESEL	EXEMPT						=					
	LDV MDV	657 105	0	9						_					
	HDV		210							<u>-</u> -					
T FUEL	ECONOMY	(NEW ACQU	ISITIONS) - (	SSA Leased	Vehicle Data										_
	Vehicle Type Make	Model	Cylinders	Drive	1999 Acquisitions	Fuel Economy	y Info Hwy FE	Combined FE			_				
	Plymouth	Breeze	Cyllilders	Dilve	5	20	28	23	0.217857143	-					
	Dodge Jeep	Caravan Cherokee			1 26	16 16	20 20	18 18	0.056875 1.47875						
	Ford Dodge	Contour Dakota			3	16	31 21	25 18	0.039516129 0.167410714						
	Dodge	Dakota E150			8	14	18	16	0.514285714 0.131512605						
	Ford Ford	Expedition			10	14 11	20	15 14	0.725						
	Ford Dodge	F250 Ram 1500			5	13 16	18 21	15 18	0.269230769 0.279017857						
	Ford Chevy	Ranger Tahoe			1 4	18 15	23 19	20 17	0.050120773 0.241403509						
	Ford	Windstar			3	15	23	18	0.168695652						
						Baseline Aver	ago EE		 16.82						
						FY2002 FE Go	al		17.82 19.82	_		_			
		* Fuel acana	v values from 1	ODE floor final	economy avid-	1 12000 FE GC	rul		13.02		=				
ΓEGY		i del econom	y values from I	JUL HEEL TUEL	economy guide						=			_	
	1. BIODIESEL	IISE									=				
	I. BIUDIESEL	- Assume diese	el use remains	constant thro	ugh FY2005									_	
	EVANNE		conversion to				EV04	EVO2	EVO2	EV04	EVOE		<u> </u>		
	FY2005 Diesel (gal)	FY2005 B20 USE (gal)		FUEL DISPL			FY01	FY02	FY03	FY04	FY05				
	507,280	517,173		105,085			105,085	105,085	105,085	105,085	105,085				
:	2 AFV ACOUNT	SITIONS - VIDS													
	Z. AI V AOGOI	- AFV Refuelin	g access (< 15	miles) = CNG	(onsite)										_
	Z. AI V AOGOI	- AFV Refuelin - Nevada Test	g access (< 15 Site is in the La	as Vegas MSA	according to the	e 1995 Census	_								_
•	Z. AI V AOGOI	- AFV Refuelin - Nevada Test - Non-AFV acq - AFV acquisiti	g access (< 15 Site is in the La uisition rates a ion rates assur	as Vegas MSA ssumed same ned to be 75%	according to the		=								
	Z. AI V AGGO	- AFV Refuelin - Nevada Test - Non-AFV acq - AFV acquisiti - LDV turnover	g access (< 15 Site is in the La uisition rates a ion rates assure assumed to be	as Vegas MSA assumed same ned to be 75% e five years	according to the as FY2001		-								_ _ _
•	I. A. V AGGO	- AFV Refuelin - Nevada Test - Non-AFV acq - AFV acquisiti - LDV turnover - Mix of AFVs ( - According to	g access (< 15 Site is in the La uisition rates a on rates assure assumed to be 80% CNG; 20% fleet sources,	as Vegas MSA assumed same ned to be 75% e five years 5 E85) 80% of gasoli	according to the as FY2001 for FY 2001 thru	by LDV	_								_ _ _ _
-	I. AI V AOGO	- AFV Refuelin - Nevada Test - Non-AFV acq - AFV acquisiti - LDV turnover - Mix of AFVs ( - According to - Avg annual L	q access (< 15 Site is in the La uisition rates a on rates assur assumed to b 80% CNG: 20% fleet sources. DV fuel use = (	as Vegas MSA assumed same ned to be 75% e five years 5 E85) 80% of gasoli 1,127,100*0.8)	according to the as FY2001 for FY 2001 thru	by LDV	-								
	I. AI Y AUGU	- AFV Refuelin - Nevada Test - Non-AFV acq - AFV acquisiti - LDV turnover - Mix of AFVs ( - According to - Avg annual L	q access (< 15 Site is in the La uisition rates a on rates assur assumed to b 80% CNG: 20% fleet sources. DV fuel use = (	as Vegas MSA issumed same ned to be 75% e five years 5 E85) 80% of gasoli 1,127,100°0.8] 5 75% of time;	according to the as FY2001 for FY 2001 thrune is consumed /657 = 1372 GGE	by LDV :: 75% E85 use	2002		2003		2004		2005		
-	I. A. V. A.O.G.	- AFV Refuelin - Nevada Test: - Non-AFV acq - AFV acquisiti - LDV turnover - Mix of AFVs ( - According to - Avg annual L - Bi-fuel assum	g access (< 15 Site is in the La uisition rates a on rates assure assumed to b 80% CNG; 20% fleet sources, DV fuel use = ( ned to use CNG 2000 Total	as Vegas MSA issumed same ned to be 75% e five years 5 E85) 80% of gasoli 1,127,100*0.8) 6 75% of time;	according to the as FY2001 for FY 2001 thrune is consumed /657 = 1372 GGE FFVs assumed 7 2001 Total	by LDV :: 75% E85 use	2002 Total	AFV 75	Total	AFV 75	Total	AFV 75	Total	AFV	
	- I V NOCC	- AFV Refuelin - Nevada Test: - Non-AFV acq - AFV acquisiti - LDV turnover - Mix of AFVs ( - According to - Avg annual L - Bi-fuel assum	g access (< 15 Site is in the La uisition rates a on rates assum assumed to b 80% CNG; 20% fleet sources. DV fuel use = ( ned to use CNG)  2000	as Vegas MSA issumed same ned to be 75% e five years 5 E85) 80% of gasoli 1,127,100°0.8] 5 75% of time;	according to the as FY2001 for FY 2001 thru ne is consumed /657 = 1372 GGE FFVs assumed	by LDV :: 75% E85 use	2002	AFV 75		AFV 75		AFV 75		AFV 75	
	T. A. V. NOSCI.	- AFV Refuelin - Nevada Test: - Non-AFV acq - Non-AFV acq - AFV acquisiti - LDV turnor - Mix of AFVs ( - According to - Avq annual L - Bi-fuel assum	g access (< 15 Site is in the La ulsition rates as on rates assum assumed to b 80% CNG; 20% fleet sources, DV fuel use = ( ned to use CNG  - 2000 Total 232	as Vegas MSA issumed same ned to be 75% e five years b E85) 80% of gasoli 1,127,100°0.8 5 75% of time;	according to the 2s FY2001 for FY 2001 thrume is consumed /657 = 1372 GGE FFVs assumed 2001 Total 100  Total AF Use	by LDV F75% E85 use	2002 Total	75 AFV Refueling	Total 100		Total 100	75	Total 100	<u>75</u>	
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		- AFV Refuelin - Nevada Test: - Non-AFV acq - AFV acquisite - LDV turnous - LDV turnous - Mix of AFVs ( - According to - Avq annual L - Bi-fuel assun	g access (< 15 Site is in the La uisition rates as un rates assum assumed to b 80% CNG; 20% fleet sources. DV fuel use = c ned to use CNG 2000 Total 232 Service in FY26	as Vegas MSA issumed same ned to be 75% e five years b E85) 80% of gasoli 1,127,100°0.8 5 75% of time;	according to the 2 as FY2001 for FY 2001 thrule is consumed /667 = 1372 GGF FFVs assumed 7 2001 Total 100  Total AF Use in FY 2005 (G	by LDV F75% E85 use	2002 Total	75  AFV Refueling	Total 100	75	Total 100 FY01	75 FY02	Total 100 FY03		_
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	3. Fuel Econor	- AFV Refuelin - Nevada Test - Non-AFV acquisit - Non-AFV acquisit - Non-AFV acquisit - LDV turnover - Mix of AFVs - According to - Avg annual L - Bi-fuel assum - Achieve incres - Require gradi - Achieve incres - LDV turnover - Assume aver - Assume aver - New LDV - qual/LDV - New gal used - Gal Saved in Fuel assum - Reduced veh - Increased vel - Increased vel - Increased vel - More use of the Assume over	g access (< 15 site is in the Liuisition rates as on rates assumed to be 30% CNG; 20% filter so in the control of the control	as Vegas MSA sissumed sammed to be 75% e five years \$1.580 to be 75% of time;  AFV 91  AFV 92  AFV 93  AFV 94  AFV 94  AFV 94  AFV 94  AFV 94  AFV 95  AFV 95	according to the as as FY2001  for FY 2001 thruster is consumed f657 = 1372 GGE FFVs assumed 100  Total AF Use in FY 2005 (G 308700 777175 385875 assumed 100 assertion of vehicle 123086 mi/yr bas FY03 25 1227 30664 1915 2895 assumed 100 assertion of vehicle 123086 mi/yr bas FY03 25 1227 30664 1915 2895 assumed 100 assertion of vehicle 100 asser	by LDV  55% E85 use  AFV 75  GE)  1 FY05 qoals  1 FY04 25 1195 1195 29871 3636 6531 16143	2002 Total 100 100 Prids yr and avg 16.8 FY05 25 1165 29117 4429 10960	75  AFV Refueling Infra 479660 500000 500000 500000 5000000	Total 100  Existing CNG	station serves	Total 100  FY01 100 AFVs; stil 77175  FY04	FY02 Il need more CN 154350	Total 100 FY03 NG for extra 300	75 FY04 veh	_
LLL PETITI	3. Fuel Econor  4. Fleet Efficie  ROL FUEL REI	- AFV Refuelin - Nevada Test: - Non-AFV acquisit - Non-AFV acquisit - LDV turnover - Mix of AFVs; - According to - Avg annual L - Bi-fuel assum - Achieve incress - Require gradi - Achieve incress - Require gradi - Achieve incress - Require gradi - Assume aver - Assume aver - Assume aver - Require gradi - Assume aver - Assume aver - Require gradi - Assume aver - Assume aver - Assume aver - Require gradi - Assume aver - Assume aver - Assume aver - Require gradi - Assume aver - Assume aver - Assume aver - Require gradi - Assume aver - Require gradi - Assume aver - Require gradi - Assume aver - Reguire gradi - Assume aver - Reguire gradi	g access (< 15 ct. access (< 15 ct. access (< 16 ct. acce	as Vegas MSA sissumed sammed to be 75% e five years \$1.580 to be 75% of time;  AFV 91  AFV 92  AFV 93  AFV 94  AFV 94  AFV 94  AFV 94  AFV 94  AFV 95  AFV 95	according to the as as FY2001  for FY 2001 thruster is consumed f657 = 1372 GGE FFVs assumed 100  Total AF Use in FY 2005 (G 308700 777175 385875 assumed 100 assertion of vehicle 123086 mi/yr bas FY03 25 1227 30664 1915 2895 assumed 100 assertion of vehicle 123086 mi/yr bas FY03 25 1227 30664 1915 2895 assumed 100 assertion of vehicle 100 asser	by LDV  55% E85 use  AFV 75  GE)  1 FY05 qoals  1 FY04 25 1195 1195 29871 3636 6531 16143	2002 Total 100 100 Prids yr and avg 16.8 FY05 25 1165 29117 4429 10960	75  AFV Refueling Infra 479660 500000 500000 500000 5000000	Total 100  Existing CNG	station serves	Total 100  FY01 100 AFVs; stil 77175  FY04	FY02 Il need more CN 154350	Total 100 FY03 NG for extra 300	75 FY04 veh	_
LLL PETITI	3. Fuel Econor 4. Fleet Efficie	- AFV Refuelin - Nevada Test: - Non-AFV acquisit - Non-AFV acquisit - LDV turnover - Mix of AFVs; - According to - Avg annual L - Bi-fuel assum - Achieve incress - Require gradi - Achieve incress - Require gradi - Achieve incress - Require gradi - Assume aver - Assume aver - Assume aver - Require gradi - Assume aver - Assume aver - Require gradi - Assume aver - Assume aver - Assume aver - Require gradi - Assume aver - Assume aver - Assume aver - Require gradi - Assume aver - Assume aver - Assume aver - Require gradi - Assume aver - Require gradi - Assume aver - Require gradi - Assume aver - Reguire gradi - Assume aver - Reguire gradi	g access (< 15 site is in the Luisition rates as on rates assumed to be 30% CNG; 20% filter is in the Luisition rates as on rates assumed to be 30% CNG; 20% filter sources. DV fuel use = 1 cell to use CNG 2000 Total 232  Service in FY20 300 Total 232  FY01 = 0.5 m	as Vegas MSA sissumed sammed to be 75% e five years \$1.580 to be 75% of time;  AFV 91  AFV 92  AFV 93  AFV 94  AFV 94  AFV 94  AFV 94  AFV 94  AFV 95  AFV 95	according to the as as FY2001  for FY 2001 thruster is consumed f657 = 1372 GGE FFVs assumed 100  Total AF Use in FY 2005 (G 308700 777175 385875 assumed 100 assertion of vehicle 123086 mi/yr bas FY03 25 1227 30664 1915 2895 assumed 100 assertion of vehicle 123086 mi/yr bas FY03 25 1227 30664 1915 2895 assumed 100 assertion of vehicle 100 asser	by LDV  55% E85 use  AFV 75  GE)  1 FY05 qoals  1 FY04 25 1195 1195 29871 3636 6531 16143	2002 Total 100 100 Prids yr and avg 16.8 FY05 25 1165 29117 4429 10960	75  AFV Refueling Infra 479660 500000 500000 500000 5000000	Total 100  Existing CNG	station serves	Total 100  FY01 100 AFVs; stil 77175  FY04	FY02 Il need more CN 154350	Total 100 FY03 NG for extra 300	75 FY04 veh	_
LLL PETF	3. Fuel Econor  4. Fleet Efficie  ROL FUEL REI STRATEGY OPTION 1	- AFV Refuelin - Nevada Test: - Non-AFV acquisit - Non-AFV acquisit - LDV turnover - Mix of AFVs; - According to - Avg annual L - Bi-fuel assum - Achieve incress - Require gradi - Achieve incress - Require gradi - Achieve incress - Require gradi - Assume aver - Assume aver - Assume aver - Require gradi - Assume aver - Assume aver - Require gradi - Assume aver - Assume aver - Assume aver - Require gradi - Assume aver - Assume aver - Assume aver - Require gradi - Assume aver - Assume aver - Assume aver - Require gradi - Assume aver - Require gradi - Assume aver - Require gradi - Assume aver - Reguire gradi - Assume aver - Reguire gradi	g access (< 15 site is in the Liuisition rates as on rates assumed to be 30% CNG; 20% filter is in the Liuisition rates as on rates assumed to be 30% CNG; 20% filter sources. DV fuel use = (2000 Total 232 compared to be 30% CNG; 20% filter sources in FY20 and assumed to be 30% CNG; 20% filter sources in FY20 and assumed to be 30% CNG; 20% filter sources in FY00 and assumed to be 30% filter sources in FY01 and assumed to be 30% filter sources in FY02 and filter sources in FY03 and filter sources in FY01 and assumed to be 30% filter sources in FY01 and filter sources in FY03 and filter sources in FY04 and filter sources in FY05 and filt	as Vegas MSA sissumed sammed to be 75% e five years is E85) and the sissumed sammed to be 75% e five years is E85) 75% of time; AFV 91 and the sissumed sammed samm	according to the as as FY2001  for FY 2001 thruster is consumed f657 = 1372 GGE FFVs assumed 100  Total AF Use in FY 2005 (G 308700 777175 385875 assumed 100 assertion of vehicle 123086 mi/yr bas FY03 25 1227 30664 1915 2895 assumed 100 assertion of vehicle 123086 mi/yr bas FY03 25 1227 30664 1915 2895 assumed 100 assertion of vehicle 100 asser	by LDV  55% E85 use  AFV 75  GE)  1 FY05 qoals  1 FY04 25 1195 1195 29871 3636 6531 16143	2002 Total 100 100 Prids yr and avg 16.8 FY05 25 1165 29117 4429 10960	75  AFV Refueling Infra 479660 500000 500000 500000 5000000	Total 100  Existing CNG	station serves	Total 100  FY01 100 AFVs; stil 77175  FY04	FY02 Il need more CN 154350	Total 100 FY03 NG for extra 300	75 FY04 veh	_
LLL PETF	4. Fleet Efficie  ROL FUEL REI STRATEGY OPTION 1	- AFV Refuelin - Nevada Test: - Non-AFV acquisit - Non-AFV acquisit - LDV turnover - Mix of AFVs; - According to - Avg annual L - Bi-fuel assum - Achieve incress - Require gradi - Achieve incress - Require gradi - Achieve incress - Require gradi - Assume aver - Assume aver - Assume aver - Require gradi - Assume aver - Assume aver - Require gradi - Assume aver - Assume aver - Assume aver - Require gradi - Assume aver - Assume aver - Assume aver - Require gradi - Assume aver - Assume aver - Assume aver - Require gradi - Assume aver - Require gradi - Assume aver - Require gradi - Assume aver - Reguire gradi - Assume aver - Reguire gradi	g access (< 15 c) g access (< 15 c) slite is in the Li uisition rates as on rates assumed to b- 30% CNG; 20% fileet sources. DV fuel use = ( ed to use CNG  2000 Total 232  Service in FY20 300 75 375  -FY01 = 0.5 m -FY02 = 2.0 m -FY03 = 2.0 m -FY03 = 2.0 m -FY05 = 3.0 m  25 c) summer of the file of the file summer of	as Vegas MSA sissumed sammed to be 75% e five years is E85) and the sissumed sammed to be 75% e five years is E85) 75% of time; AFV 91 and the sissumed sammed samm	according to the as as FY2001  for FY 2001 thruster is consumed f657 = 1372 GGE FFVs assumed 100  Total AF Use in FY 2005 (G 308700 777175 385875 assumed 100 assertion of vehicle 123086 mi/yr bas FY03 25 1227 30664 1915 2895 assumed 100 assertion of vehicle 123086 mi/yr bas FY03 25 1227 30664 1915 2895 assumed 100 assertion of vehicle 100 asser	by LDV  55% E85 use  AFV 75  GE)  1 FY05 qoals  1 FY04 25 1195 1195 29871 3636 6531 16143	2002 Total 100 100 Prids yr and avg 16.8 FY05 25 1165 29117 4429 10960	75  AFV Refueling Infra 479660 500000 500000 500000 5000000	Total 100  Existing CNG	station serves	Total 100  FY01 100 AFVs; stil 77175  FY04	FY02 Il need more CN 154350	Total 100 FY03 NG for extra 300	75 FY04 veh	

# **NREL**

TOTAL

TOTAL FUE	1 1165													
TOTAL FUE	L USE	1999		1999 NON-RO			1999 EXEMP	Γ		2005 GOAL	-			
	GASOL	(GAL) 16,100	GGE 16,100	GAL	GGE	GAL 1464	GGE 1464		14,636	GGE REDUCT				
	DIESEL TOTAL	720	826 16.926		-		1.464		826 15.462	3.092				
FLEET DAT	A -VIDS													
		1999 INVENTORY	NEW TOTAL	NEW AFV	2000 INVENTORY	NEW TOTAL	NEW AFV	2001 INVENTORY	NEW TOTAL	NEW AFV	-			
	LDV	36	9	8	36	6	5	37	9	9				
	MDV HDV	12	1							- -				
	Afv	14 GASOL	DIESEL	EXEMPT						<u>-</u> -				
	LDV MDV	0	12	2 (assume all d	iesel)					-				
	HDV	0	0							_	='			
FLEET FUE	L ECONOMY	(NEW ACQU	JISITIONS) - Y	VIDS										_
	Vehicle Type				1999	Fuel Econom	ny Info				_			
	Make Ford	Model MINICOMPAC	Cylinders T	Drive	Acquisitions 0	City FE	Hwy FE	Combined FE 26	0	=				
	Ford	SUBCOMPACT COMPACT	T		0	20.3	28.5	33 23	<u>0</u>					
		MIDSIZE LARGE			0	19.7 18	29 25	23 21	0					
		TWO-SEATER SMALL P/U	?		0	16.1	20.2	0	0					
		LARGE P/U SMALL VAN			0	14.3	19.1	16	0					
		LARGE VAN			0	15.5 14.2	20.7 19.1	17 16	<u>0</u> 0					
									_					
						FY2002 FE G	rage FE oal		#VALUE!	-				
						FY2005 FE G			#VALUE!	<del>-</del> <del>-</del>				
		* Average fuel	l economy valu	es estimated by	category base	ed on FY 1999 N	New GSA Lease	d Vehicles for D	OE fleet					
STRATEGY	,		, , , , , , , , , , , , , , , , , , , ,								-		_	
SIKAILGI											-			
	1. BIODIESEL	- NRFL has HI	DV fleet									<del>-</del>		
		<ul> <li>Assume dies</li> <li>Assume tota</li> </ul>	sel use remains al conversion to	B20 by FY2005	igh FY2005									_
	FY2005	FY2005		EQUIV FY200	5		FY01	FY02	FY03	FY04	FY05			
	Diesel (gal) 720	B20 USE (gal) 734		FUEL DISPL (	GGE)		149	149	149	149	149	_		
		SITIONS - VIDS	;											
	L. AI TAOGO	- AFV Refuelir - NREL is in N	ng access (< 15	miles) = CNG (	public); LPG (p	ublic); E85 (pul	blic)							
		- MIXEL IS III IV												
		- Non-AFV acc	quisition rates a	assumed same	as FY2001; AF	V acquisition at	75% EPACT							
		<ul> <li>LDV turnove</li> </ul>	quisition rates a	e five vears										
		<ul> <li>LDV turnove</li> <li>Mix of AFVs</li> <li>Avg annual I</li> </ul>	quisition rates a er assumed to b (50% CNG; 30% LDV fuel use = "	assumed same te five years % Electric; 20% 16100/22 = 732 umed 75% E85 u	E85) based on									
	_	<ul> <li>LDV turnove</li> <li>Mix of AFVs</li> <li>Avg annual I</li> </ul>	quisition rates a er assumed to b (50% CNG; 30% LDV fuel use = 1 and FFVs assu 2000	e five years 6 Electric; 20% 16100/22 = 732 1med 75% E85 u	E85) based on 2 GGE use 2001	Fy 1999 purcha	2002		2003		2004		2005	
	_	<ul> <li>LDV turnove</li> <li>Mix of AFVs</li> <li>Avg annual I</li> </ul>	quisition rates a er assumed to b (50% CNG; 30% LDV fuel use = 1 and FFVs assu	e five years 6 Electric; 20% 16100/22 = 732	E85) based on 2 GGE use		ased	AFV 7	2003 Total 9	AFV 7	2004 Total 9	AFV 7	2005 Total 9	AFV
	_	- LDV turnove - Mix of AFVs - Avg annual I - CNG Bi-Fuel LDV MDV	quisition rates a er assumed to b (50% CNG; 30% LDV fuel use = 1 and FFVs assu 2000 Total	e five years 6 Electric; 20% 16100/22 = 732 1med 75% E85 u	E85) based on 2 GGE use 2001 Total	Fy 1999 purcha	2002 Total		Total		Total		Total	AFV 
	_	- LDV turnove - Mix of AFVs - Avg annual I - CNG Bi-Fuel  LDV MDV HDV	quisition rates a er assumed to b (50% CNG; 30% LDV fuel use = ' and FFVs assu 2000 Total	e five years 6 Electric; 20% 16100/22 = 732 Imed 75% E85 t AFV 5	E85) based on 2 GGE use 2001 Total	Fy 1999 purcha AFV 7	2002 Total 9		Total 9	7	Total 9	7	Total 9	AFV 7 
	_	- LDV turnove - Mix of AFVs - Avg annual I - CNG Bi-Fuel  LDV MDV HDV  Total AFVs in CNG Bi-Fuel	quisition rates a er assumed to (50% CNG; 30% LDV fuel use = 1 and FFVs assu 2000 Total 6	e five years 6 Electric; 20% 16100/22 = 732 Imed 75% E85 t AFV 5	E85) based on 2 GGE use 2001 Total 9 Total AF Fuel 9608	Fy 1999 purcha	2002 Total 9		Total		Total		Total	AFV
	-	- LDV turnove - Mix of AFVs - Avg annual i - CNG Bi-Fuel  LDV MDV HDV  Total AFVs in CNG Bi-Fuel Electric E85 FFV	quisition rates a refraction rates as refraction rates (50% CNG; 30% CNG; 3	e five years 6 Electric; 20% 16100/22 = 732 Imed 75% E85 t AFV 5	E85) based on GGE Ise 2001 Total 9 Total AF Fuel 9608 7686 3843	Fy 1999 purcha AFV 7	2002 Total 9		Total 9 FY01	FY02	Total 9	FY04	FY05	AFV T 
	-	- LDV turnove - Mix of AFVs - Avg annual I - CNG Bi-Fuel  LDV MDV HDV  Total AFVs in CNG Bi-Fuel E85 FFV Total	quisition rates a r assumed to b (50% CNG; 30% LDV fuel use = : and FFVs assu 2000 Total 6  Service in FY2: 18	e five years 6 Electric; 20% 16100/22 = 732 Imed 75% E85 t AFV 5	E85) based on CGGE USE 2001 Total 9 Total AF Fuel 9608 7686	Fy 1999 purcha AFV 7	2002 Total 9		Total 9	7	Total 9	7	Total 9	AFV _7  
	3. Fuel Econo	- LDV turnove - Mix of AFVs - Avg annual i - CNG Bi-Fuel  LDV MDV HDV  Total AFVs in CNG Bi-Fuel Electric E85 FFV Total my Increases	guisition rates a r assumed to b (50% CNG: 30% LDV fuel use = - and FFVs assu 2000 Total 6  Service in FY2 18 11 7 25	e five years & Electric: 20%   6100/22 = 732   6100/22 = 732   6100/25   610	E85) based on 2 GGE use 2001 Total 9 Total AF Fuel 9608 7686 3843 13451	AFV 7	2002 Total 9		Total 9 FY01	FY02	Total 9	FY04	FY05	AFV _7  
	3. Fuel Econo	- LDV turnove - Mix of AFVs - Avg annual i - CNG Bi-Fuel  LDV MDV HDV  Total AFVs in CNG Bi-Fuel Electric E85 FFV Total my Increases	guisition rates a r assumed to b (50% CNG: 30% LDV fuel use = - and FFVs assu 2000 Total 6  Service in FY2 18 11 7 25	e five years 6 Electric; 20% 16100/22 = 732 Imed 75% E85 t AFV 5	E85) based on 2 GGE use 2001 Total 9 Total AF Fuel 9608 7686 3843 13451	AFV 7	2002 Total 9		Total 9 FY01	FY02	Total 9	FY04	FY05	—AFV _7   
	3. Fuel Econo	- LDV turnove - Mix of AFVs - Avg annual i - CNG Bi-Fuel  LDV MDV HDV  Total AFVs in CNG Bi-Fuel Electric E85 FFV Total my Increases	quisition rates a re assumed to (50% CNG; 30% C	e five years & Electric; 20% & Electric; 20% (16100/22 = 732 umed 75% E85 to AFV 5	E85) based on 2 GGE use 2001 Total 9 Total AF Fuel 9608 7686 3843 13451	AFV 7	2002 Total 9		Total 9 FY01	FY02	Total 9	FY04	FY05	— <u>AFV</u> _7 —— —— —— —— ——
	3. Fuel Econo	- LDV turnove - Mix of AFVs - Avg annual i - CNG Bi-Fuel  LDV MDV HDV  Total AFVs in CNG Bi-Fuel Electric E85 FFV Total my Increases	guistition rates to be (50% CNG; 30% CN	e five years 6 Electric; 20% 16100/22 = 732 Imed 75% E85 to AFV 5  0005	E85) based on 2 GGE use 2001 Total 9 Total AF Fuel 9608 7686 3843 13451	AFV 7	2002 Total 9		Total 9 FY01	FY02	Total 9	FY04	FY05	— <u>AFV</u> _7 — — — — — — —
	3. Fuel Econo	- LDV turnove - Mix of AFVs - Avg annual i - CNG Bi-Fuel  LDV MDV HDV  Total AFVs in CNG Bi-Fuel Electric E85 FFV Total my Increases - Require grac	guistition rates :  r assumed to b (50% CNG: 30% LDV fuel use = ' and FFVs assu.  2000 Total 6  Service in FY2: 18 11 7 25  dually increasin - FY01 = 0.5 m - FY02 = 1.0 m - FY04 = 2.5 m - FY04 = 2.5 m	e five years & Electric: 20% 16100/22 = 732 Imed 75% E85 t  AFV 5  0005  og FE consisten pag increase pag increase pag increase pag increase pag increase	E85) based on 2 GGE use 2001 Total AF Fuel 9608 7688 3843 13451	AFV 7 Use (GGE) in F	2002 Total 9		Total 9 FY01	FY02	Total 9	FY04	FY05	AFV 7  
	3. Fuel Econo	- LDV turnove - Mix of AFVs - Avg annual i - CNG Bi-Fuel  LDV MDV HDV  Total AFVs in CNG Bi-Fuel Electric E85 FFV Total - Require grac	guisition rates : rassumed to b (50% CNG: 30% LDV fuel use = 2 000 Total 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	e five vears de Electric: 20% 16100/22 = 732 Immed 75% E85 t  AFV 5  005  005  005  007  007  007  007	E85) based on 2 GGE use 2001 Total 9 Total AF Fuel 9608 3843 13451 t with FY02 and	AFV 7  Use (GGE) in F	2002 Total 9 FY2005	7	Total 9 FY01	FY02	Total 9	FY04	FY05	AFV
	3. Fuel Econo	- LDV turnove - Mix of AFVs - Avg annual i - CNG Bi-Fuel  LDV MDV HDV  Total AFVs in CNG Bi-Fuel Electric E85 FFV Total - Require grac	guistition rates : r assumed to b (50% CNG: 30% LDV fuel use = - 1 and FFVs assu 2000 Total 6  Service in FY2 18 11 7 25  dually increasin - FY01 = 0.5 m - FY02 = 2.0 m - FY03 = 2.0 m - FY04 = 2.5 m - FY05 = 3.0 m eased FE throu r assumed to b rage new LDV i rage massumed to b	e five years de Electric; 20% 16100/22 = 732 Imed 75% E85 to AFV 5  O05  Og FE consisten  on pig increase	E85) based on 2 GGE 1Se 2001 Total 9  Total AF Fuel 9608 7686 3843 13451  t with FY02 and	AFV 7  Use (GGE) in F	2002 Total 9 FY2005	7	Total 9 FY01	FY02	Total 9	FY04	FY05	AFV
	3. Fuel Econo	- LDV turnove - Mix of AFVs - Avq annual I - CNG Bi-Fuel  LDV MDV HDV Total AFVs in CNG Bi-Fuel Electric E85 FFV Total my Increases - Require grac - LDV turnove - Assume ave  New LDV	guistition rates a to rassumed to be (50% CNG; 30% CNG; 3	de five years & Electric; 20% (6 Electric) 20% (6 Electri	E85) based on 2 GGE 1Se 2001 Total AF Fuel 9608 7686 3843 13451 t with FY02 and 15751 mi/yr base FY03 2	AFV 7 Use (GGE) in F	2002 Total 9 FY2005	7	Total 9 FY01	FY02	Total 9	FY04	FY05	AFV
	3. Fuel Econo	- LDV turnove - Mix of AFVs - Avq annual I - CNG Bi-Fuel  LDV MDV HDV Total AFVs in CNG Bi-Fuel Electric E85 FFV Total my Increases - Require grac - LDV turnove - Assume ave  New LDV qal/LDV New Qal used	guisition rates a to reasumed to be (50% CNG; 30% LDV fuel use = 1 and FFVs assu.  2000 Total 6  Service in FY2: 18 11 7 25  Jually increasin - FY01 = 0.5 m - FY02 = 1.0 m - FY03 = 2.0 m - FY03 = 2.0 m - FY05 = 3.0 m - FY04 = 0.5 m - FY05 = 3.0 m - FY05 = 3.0 m - FY06 = 3.0 m - FY07 = 3.0 m - FY08 = 3.0 m - FY09 = 3.0 m	e five years 6 Electric; 20% 16100/22 = 732 1med 75% E85 to 16100/22 = 732 1med 75% E85 to 16100/25 = 732 1med 75% E85 to 16100/25 = 75005 1med 75% E85 to 16100/25 = 7500 1med 75% E85 to 161000/25 = 7500 1med 75% E85 to 161000/25 = 7500 1med 75% E85 to 1610000/25 = 7500 1med 75% E85 to 16100000000000000000000000000000000000	E85) based on 2 GGE USE 2001 Total AF Fuel 9 9608 7686 3843 13451 t with FY02 and 15751 mi/yr base 7571 mi/yr	AFV 7  Use (GGE) in F  I FY05 goals  types, use of hydron 348 gal/yr FY04 2 #VALUE!	2002 Total 9  FY2005  wybrids and avg 19.4 m FY05 2 #VALUE! #VALUE!	7	Total 9 FY01	FY02	Total 9	FY04	FY05	AFV
	3. Fuel Econo	- LDV turnove - Mix of AFVs - Avg annual I - CNG Bi-Fuel  LDV MDV HDV Total AFVs in CNG Bi-Fuel Electric E85 FFV Total my Increases - Require grac - Achieve incr - LDV turnove - Assume ave	guistition rates : r assumed to b (50% CNG: 30% LDV fuel use = 1 and FFVs assumed to b (50% CNG: 30% LDV fuel use = 2 and FFVs assumed to b (50% CNG: 30% LDV fuel use = 2 and FFVs assumed to b (50% CNG: 50% CNG	e five years & Electric; 20% (6 Electric	E85) based on 2 GGE 2 GGE 2001 Total AF Fuel 9608 7686 3943 13451 t with FY02 and tion of vehicle 6751 mi/yr base FY03 2 #VALUE!	AFV 7  Use (GGE) in F  d FY05 qoals  types, use of hy d on 348 gal/yr  FY04 2 #VALUE!	2002 Total 9  FY2005  ybrids and avg 19.4 m FY05 2 #VALUE!	7	Total 9 FY01	FY02	Total 9	FY04	FY05	AFV 
	3. Fuel Econo	- LDV turnove - Mix of AFVs - Avg annual i - CNG Bi-Fuel  LDV MDV HDV Total AFVs in CNG Bi-Fuel Electric E85 FFV Total - Require grac - LDV turnove - Assume ave  New LDV gal/LDV New gal used Gal saved in f	guisition rates : r assumed to b (50% CNG: 30% LDV fuel use = - and FFVs assu 2000 Total 6  Service in FY2: 18 11 7 25  dually increasin -FY01 = 0.5 m -FY02 = 1.0 m -FY04 = 2.5 m -FY04 = 2.5 m -FY05 = 3.0 m -FY05 = 3.0 m -FY06 = 3.0 m -FY01 = 2.5 m -FY01 = 2.5 m -FY05 = 3.0 m -FY05 = 3.0 m -FY05 = 3.0 m -FY06 = 3.0 m -FY01	de five vears de Electric: 20% de Electr	E85) based on 2 GGE 1Se 2001 Total AF Fuel 9608 7686 3843 13451 t with FY02 and 13451 t with FY02 and 14451 t with FY02 and 1451 t with FY03 and 1451 t with	AFV 7 Use (GGE) in F types, use of h d on 348 gal/yr FY04 2 #VALUE! #VALUE!	ybrids and avg 19.4 m FY05 2 #VALUE!	7 ADD	Total 9 FY01	FY02	Total 9	FY04	FY05	AFV 
		- LDV turnove - Mix of AFVs - Avq annual I - CNG Bi-Fuel LDV MDV HDV Total AFVs in CNG Bi-Fuel Electric E85 FFV Total - Require grac - Achieve incr - LDV turnove - Assume ave New LDV gal/LDV New gal used Gal Saved Cu Total gal saved Total gal saved	guistition rates : r assumed to b (50% CNG: 30% LDV fuel use = : and FFVs assu 2000 Total 6  Service in FY2: 18 11 7 25  dually increasin - FY01 = 0.5 m - FY02 = 1.0 m - FY02 = 1.0 m - FY03 = 2.0 m - FY04 = 2.5 m - FY05 = 2.0 m - FY05 = 0.0 m - F	de five vears de Electric: 20% de Electr	E85) based on 2 GGE 1Se 2001 Total AF Fuel 9608 7686 3843 13451 t with FY02 and 13451 t with FY02 and 14451 t with FY02 and 1451 t with FY03 and 1451 t with	AFV 7  Use (GGE) in F  I FY05 goals  I FY05 goals  I FY04 2 #VALUE! #VALUE!	ybrids and avg 19.4 m FY05 2 #VALUE! #VALUE!	7 ADD	Total 9 FY01	FY02	Total 9	FY04	FY05	AFV 
		- LDV turnove - Mix of AFVs - Avq annual I - CNG Bi-Fuel  LDV MDV HDV Total AFVs in CNG Bi-Fuel Electric E85 FFV Total my Increases - Require grad - Achieve incr - LDV turnove - Assume ave New LDV qal/LDV New qal used Gal saved in F Gal Saved Cu Total gal save - Reduced vet	guisition rates : r assumed to b (50% CNG: 30% LDV fuel use = : and FFVs assu  2000 Total 6  Service in FY2 18 11 7 25  dually increasin - FY01 = 0.5 m - FY02 = 2.0 m - FY03 = 2.0 m - FY04 = 2.5 m - FY05 = 2.0 m - FY05 = 0.0 m - FY	de five vears de Electric: 20% de Electr	E85) based on 2 GGE 1Se 2001 Total AF Fuel 9608 7686 3843 13451 t with FY02 and 13451 t with FY02 and 14451 t with FY02 and 1451 t with FY03 and 1451 t with	AFV 7  Use (GGE) in F  I FY05 goals  I FY05 goals  I FY04 2 #VALUE! #VALUE!	ybrids and avg 19.4 m FY05 2 #VALUE! #VALUE!	7 ADD	Total 9 FY01	FY02	Total 9	FY04	FY05	AFV
		- LDV turnove - Mix of AFVs - Avq annual I - CNG Bi-Fuel  LDV MDV HDV Total AFVs in CNG Bi-Fuel Electric E85 FFV Total my Increases - Require grac - LDV turnove - Assume ave  New LDV qal/LDV New qal used Gal saved in F Gal Saved Cu Total gal save - Reduced vei - Increased vei - Increased vei - More use of	Quisition rates	e five years 6 Electric; 20% 16100/22 = 732 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	E85) based on 2 GGE USE 2001 Total AF Fuel 9 9608 7686 3843 13451 t with FY02 and 15751 mi/yr base 75751 mi/	AFV 7  Use (GGE) in F  I FY05 goals  types, use of h  d on 348 gal/yr  FY04 2 #VALUE! #VALUE! #VALUE!	ybrids and avg 19.4 m FY05 2 #VALUE! #VALUE!	7 ADD	Total 9 FY01	FY02	Total 9	FY04	FY05	AFV
		- LDV turnove - Mix of AFVs - Avg annual I - CNG Bi-Fuel  LDV MDV HDV Total AFVs in CNG Bi-Fuel Electric E85 FFV Total my Increases - Require grac - LDV turnove - Assume ave  New LDV gal/LDV New gal used Gal saved inf Gal Saved Cu Total gal save - Increased ve - Increased ve - More use of - Assume ove	Quisition rates	de five years & Electric: 20% (6 Electri	E85) based on 2 GGE USE 2001 Total AF Fuel 9 9608 7686 3843 13451 t with FY02 and 15751 mi/yr base 75751 mi/	AFV 7  Use (GGE) in F  I FY05 goals  types, use of h  d on 348 gal/yr  FY04 2 #VALUE! #VALUE! #VALUE!	ybrids and avg 19.4 m FY05 2 #VALUE! #VALUE!	#VALUE!	FY01 2690.1	7 FY02 5380.2	FY03  8070.3	7 FY04 10760.4	FY05	AFV
		- LDV turnove - Mix of AFVs - Avg annual I - CNG Bi-Fuel  LDV MDV HDV Total AFVs in CNG Bi-Fuel Electric E85 FFV Total my Increases - Require grac - LDV turnove - Assume ave  New LDV gal/LDV New gal used Gal saved inf Gal Saved Cu Total gal save - Reduced vel - Increased ve - More use of - Assume ove Covered Baseline GGE	quisition rates: a rassumed to b (50% CNG: 30% LDV fuel use = 1 and FFVs assumed FVs assumed for a sasumed to b rage new LDV in FVs assumed for assume	de five years & Electric: 20% (6 Electri	E85) based on 2 GGE 2 GGE 2001 Total AF Fuel 9608 7686 3843 13451 t with FY02 and tion of vehicle 6751 mi/yr base FY03 2 #VALUE! #VALUE! #VALUE!	AFV 7  Use (GGE) in F  I FY05 goals  types, use of h  d on 348 gal/yr  FY04 2 #VALUE! #VALUE! #VALUE!	ybrids and avg 19.4 m FY05 2 #VALUE! #VALUE!	#VALUE! #VALUE!	FY01  2690.1  FY02	7 FY02 5380.2	FY03  8070.3	7 FY04 10760.4	FY05	AFV
		- LDV turnove - Mix of AFVs - Avq annual I - CNG Bi-Fuel -	quisition rates: a rassumed to b (50% CNG: 30% LDV fuel use = 1 and FFVs assumed FVs assumed for a sasumed to b rage new LDV in FVs assumed for assume	e five years & Electric; 20% (6100/22 = 732 med 75% E85 to 16100/22 = 732 med 75% E85 to 16100/25 = 732 med 75% E85 to 161000/25 = 732 med 75% E85 to 161000/25 = 732 med 75% E85 to 161000/25 = 732 med 75% E85 to 1610000/25 = 732 med 75% E85 to 16100000000000000000000000000000000000	E85) based on 2 GGE 2 GGE 2001 Total AF Fuel 9608 7686 3843 13451 t with FY02 and tion of vehicle 6751 mi/yr base FY03 2 #VALUE! #VALUE! #VALUE!	AFV 7  Use (GGE) in F  I FY05 goals  types, use of h  d on 348 gal/yr  FY04 2 #VALUE! #VALUE! #VALUE!	ybrids and avg 19.4 m FY05 2 #VALUE! #VALUE!	#VALUE!	FY01 2690.1	7 FY02 5380.2	FY03  8070.3	7 FY04 10760.4	FY05	AFV
OVERALL PE		- LDV turnove - Mix of AFVs - Avq annual I - CNG Bi-Fuel  LDV MDV HDV Total AFVs in CNG Bi-Fuel Electric E85 FFV Total my Increases - Require grac - Achieve incr - LDV turnove - Assume ave New LDV qal/LDV New qal used Gal saved in F Gal Saved Cu Total gal save - Reduced vel - Increased ve - More use of - Assume ove Covered Baseline GGE 15.462	guisition rates : r assumed to b (50% CNG: 30% LDV fuel use = : and FFVs assu 2000 Total 6  Service in FY2: 18 11 7 25  dually increasin - FY01 = 0.5 m - FY02 = 1.0 m - FY02 = 1.0 m - FY03 = 2.0 m - FY04 = 2.5 m - FY05 = 1.0 m - FY	e five years 6 Electric; 20% 16100/22 = 732 1med 75% E85 to 16100/22 = 732 1med 75% E85 to 16100/25 = 732 1med 75% E85 to 161000/25 = 732 1med 75% E85 to 161000/25 = 732 1med 75% E85 to 1610000/25 = 732 1med 75% E85 to 16100000000000000000000000000000000000	E85) based on 2 GGE 2 GGE 2001 Total AF Fuel 9608 7686 3843 13451 t with FY02 and tion of vehicle 6751 mi/yr base FY03 2 #VALUE! #VALUE! #VALUE!	AFV 7  Use (GGE) in F  I FY05 goals  types, use of h  d on 348 gal/yr  FY04 2 #VALUE! #VALUE! #VALUE!	ybrids and avg 19.4 m FY05 2 #VALUE! #VALUE!	#VALUE! #VALUE!	FY01  2690.1  FY02	7 FY02 5380.2	FY03  8070.3	7 FY04 10760.4	FY05	AFV
OVERALL PET	4. Fleet Efficie	- LDV turnove - Mix of AFVs - Avq annual I - CNG Bi-Fuel  LDV MDV HDV Total AFVs in CNG Bi-Fuel Electric E85 FFV Total my Increases - Require grac - Achieve incr - LDV turnove - Assume ave New LDV qal/LDV New qal used Gal saved in F Gal Saved Cu Total gal save - Reduced vel - Increased ve - More use of - Assume ove Covered Baseline GGE 15.462	guistition rates: or assumed to b (50% CNG: 30%	e five years & Electric; 20% & Electric; 20% (6100/22 = 732 med 75% E85 to 75	E85) based on 2 GGE 2 GGE 2001 Total AF Fuel 9608 7686 3843 13451 t with FY02 and tion of vehicle 6751 mi/yr base FY03 2 #VALUE! #VALUE! #VALUE!	AFV 7  Use (GGE) in F  I FY05 goals  types, use of h  d on 348 gal/yr  FY04 2 #VALUE! #VALUE! #VALUE!	ybrids and avg 19.4 m FY05 2 #VALUE! #VALUE!	#VALUE! #VALUE!	FY01  2690.1  FY02	7 FY02 5380.2	FY03  8070.3	7 FY04 10760.4	FY05	AFV
OVERALL PET	4. Fleet Efficie	- LDV turnove - Mix of AFVs - Avq annual I - CNG Bi-Fuel  LDV MDV HDV Total AFVs in CNG Bi-Fuel Electric E85 FFV Total my Increases - Require grac - Achieve incr - LDV turnove - Assume ave New LDV qal/LDV New qal used Gal saved in F Gal Saved Cu Total gal save - Reduced vel - Increased ve - More use of - Assume ove Covered Baseline GGE 15.462	guisition rates : r assumed to b (50% CNG: 30% LDV fuel use = : and FFVs assu 2000 Total 6  Service in FY2: 18 11 7 25  dually increasin - FY01 = 0.5 m - FY02 = 1.0 m - FY02 = 1.0 m - FY03 = 2.0 m - FY04 = 2.5 m - FY05 = 1.0 m - FY	e five years & Electric; 20% & Electric; 20% (6100/22 = 732 med 75% E85 to 75	E85) based on 2 GGE 2 GGE 2001 Total AF Fuel 9608 7686 3843 13451 t with FY02 and tion of vehicle 6751 mi/yr base FY03 2 #VALUE! #VALUE! #VALUE!	AFV 7  Use (GGE) in F  I FY05 goals  types, use of h  d on 348 gal/yr  FY04 2 #VALUE! #VALUE! #VALUE!	ybrids and avg 19.4 m FY05 2 #VALUE! #VALUE!	#VALUE! #VALUE!	FY01  2690.1  FY02	7 FY02 5380.2	FY03  8070.3	7 FY04 10760.4	FY05	AFV
OVERALL PE	4. Fleet Efficie	- LDV turnove - Mix of AFVs - Avq annual I - CNG Bi-Fuel  LDV MDV HDV Total AFVs in CNG Bi-Fuel Electric E85 FFV Total my Increases - Require grac - Achieve incr - LDV turnove - Assume ave New LDV qal/LDV New qal used Gal saved in F Gal Saved Cu Total gal save - Reduced vel - Increased ve - More use of - Assume ove Covered Baseline GGE 15.462	guisition rates; or assumed to b (50% CNG; 30% LDV fuel use = 1 and FFVs assumed to b (50% CNG; 30% LDV fuel use = 2 and FFVs assumed to b (50% CNG; 30% LDV fuel use = 2 and FFVs assumed to b (50% CNG; 30% LDV fuel use = 2 and (50% CNG; 30% LDV fuel use = 2 and (50% CNG; 30% CNG; 3	e five years & Electric; 20% & Electric; 20% (6100/22 = 732 med 75% E85 to 75	E85) based on 2 GGE 2 GGE 2001 Total AF Fuel 9608 7686 3843 13451 t with FY02 and tion of vehicle 6751 mi/yr base FY03 2 #VALUE! #VALUE! #VALUE!	AFV 7  Use (GGE) in F  I FY05 goals  types, use of h  d on 348 gal/yr  FY04 2 #VALUE! #VALUE! #VALUE!	ybrids and avg 19.4 m FY05 2 #VALUE! #VALUE!	#VALUE! #VALUE!	FY01  2690.1  FY02	7 FY02 5380.2	FY03  8070.3	7 FY04 10760.4	FY05	AFV
OVERALL PE	4. Fleet Efficie	- LDV turnove - Mix of AFVs - Avq annual I - CNG Bi-Fuel  LDV MDV HDV Total AFVs in CNG Bi-Fuel Electric E85 FFV Total my Increases - Require grac - Achieve incr - LDV turnove - Assume ave New LDV qal/LDV New qal used Gal saved in F Gal Saved Cu Total gal save - Reduced vel - Increased ve - More use of - Assume ove Covered Baseline GGE 15.462	guisition rates:  r assumed to b (50% CNG: 30% LDV fuel use = 1 and FFVs assi.  2000 Total 6  Service in FY2: 18 11 7 25  dually increasin - FY01 = 0.5 m - FY02 = 1.0 m - FY04 = 2.5 m - FY05 = 3.0 m -	e five years & Electric; 20% & Electric; 20% (6100/22 = 732 med 75% E85 to 75	E85) based on 2 GGE 2 GGE 2001 Total AF Fuel 9608 7686 3843 13451 t with FY02 and tion of vehicle 6751 mi/yr base FY03 2 #VALUE! #VALUE! #VALUE!	AFV 7  Use (GGE) in F  I FY05 goals  types, use of h  d on 348 gal/yr  FY04 2 #VALUE! #VALUE! #VALUE!	ybrids and avg 19.4 m FY05 2 #VALUE! #VALUE!	#VALUE! #VALUE!	FY01  2690.1  FY02	7 FY02 5380.2	FY03  8070.3	7 FY04 10760.4	FY05	AFV

	IAI L LAD												
TOTAL FUEL USE										_			
	1999 (GAL)	GGE	1999 NON-R	OAD GGE	GAL	1999 EXEM	MPT	TOTAL GGE	GGE REDUC	_			
GASOL	(OAL)	495,145	OAL	192,534		0		302,611	_	<u>.</u>			
DIESEL TOTAL		171,987 667,132		54,305 246.839		_		117,682 420.293	84.059				
FLEET DATA -VIDS										_			
	1999 INVENTORY	NEW TOTAL	NEW AFV	2000	/ NEW TOT	AL NEW AEV	2001 INVENTORY	/ NEW TOTAL	NEW AEV				
LDV		39	17	1569	19	AL NEW AFV 13	1514	30	12				
MDV HDV	220 216								_				
AFV	14								_				
LDV		DIESEL 0	EXEMPT 187						_				
MDV		220	7	(assume all						_			
HDV		216	22	(assume all	diesel)					_			
FLEET FUEL ECONO	MY (NEW ACQUI	SITIONS) - V	IDS										
Vehicle T	vne			1999	Fuel Econ	omy Info							
Make	Model	Cylinders	Drive	Acquisition	s City FE	Hwy FE	Combined F		_	_			
Ford Ford	MINICOMPACT SUBCOMPACT			0			26 33	<u>0</u>					
-	COMPACT			3	20.3	28.5	23	0.128649209					
	MIDSIZE LARGE				19.7 18	29 25	23 21	<u>0</u> 0					
	TWO-SEATER SMALL P/U			6	16.1	20.2	0 18	0.33863231					
	LARGE P/U			13	14.3	19.1	16	0.806282723					
	SMALL VAN LARGE VAN				15.5 14.2	20.7 19.1	17 16	<u>0</u> 0					
	2,4102 7,41												
-					FY2002 FE	Average FE E Goal		17.3 18.3	_				
					FY2005 FE	E Goal		20.3					
	* Average fuel	economy value	es estimated b	by category ba	sed on FY 199	99 New GSA Lea	sed Vehicles for	DOE fleet					
	and fleet fuel	economy guid	le							_		_	
STRATEGY	eri lier									_			
1. BIODIE	SEL USE									_			
	- Assume diese - Assume total	l use remains	constant thro	ough FY2005						_			
		CONVENSION LO										_	
FY2005 Diesel (ga	FY2005 al) B20 USE (gal)		FUEL DISPL			FY01	FY02	FY03	FY04	FY05			
153,560	156.555		31.811			31.811	31,811	31.811	31.811	31.811			
2. AFV AC	QUISITIONS - VIDS												
	- AFV Refueling - Oak Ridge in	access (< 20	miles) = CNG	(govt), LPG (p	rivate)								
	- Non-AFV acqu	uisition rates a		e as FY2001; A	FV acquisition	n = 75% EPACT							
	- All acquisition - LDV turnover												
	<ul> <li>Mix of AFVs b</li> </ul>	ased on 1999	purchased (10	00% E85)									
	<ul> <li>Avg annual LI</li> <li>FFVs assume</li> </ul>			174 GGE									
		2000		2001		2002		2003		2004		2005	
		Total	AFV	Total	AFV	Total	AFV	Total	AFV	Total	AFV	Total	AFV
-	LDV MDV	19	13	30	23	30	23	30	23	30	23	30	23
	HDV			Total AF			AFV Infra						
	Total AFVs in S	Service in FY20	05	Fuel Use (G	GE) in FY 200	)5	(\$)		FY01	FY02	FY03	FY04	FY05
	E85 FFV	115		15008			35000						
		115		15008					3001.5	6003	9004.5	12006	15008
	AFV Refueling												
	Infra Biodiesel		0										
	E85		255000	(Two sites)									_
3. Fuel Ed	conomy Increases												
	- Require gradu	ally increasing	FE consiste	ent with FY02 a	nd FY05 goals	8							
		- FY01 = 0.5 m	pg increase										
		- FY02 = 1.0 m - FY03 = 2.0 m	pg increase										
-		<ul> <li>FY04 =2.5 mp</li> <li>FY05 = 3.0 m</li> </ul>											
			gh better sele	ection of vehicl	e types, use o	of hybrids					_		
	- Achieve incre		five veere		sed on 174 ga	l/yr and avg 17.	3 mpg					_	
	- Achieve incre	assumed to be	e five years n 1999 travels	3010 mi/yr bas	ocu on 114 qu								
	- Achieve incre - LDV turnover - Assume avera	assumed to be	1999 travels FY01	3010 mi/yr bas FY02	FY03	FY04	FY05						
	- Achieve incre - LDV turnover - Assume avera	assumed to be	1999 travels FY01 7	FY02 7	FY03 7	7	FY05 7						
	- Achieve incre - LDV turnover - Assume avera  New LDV gal/LDV New gal used	assumed to be age new LDV in	1999 travels FY01	FY02	FY03		<u>7</u> 148						
	- Achieve incre - LDV turnover - Assume avera  New LDV gal/LDV New gal used Gal saved in FV	assumed to be age new LDV in	FY01 7 169 1185 33	FY02 7 165 1153 65	FY03 7 156 1093 125	7 152 1066 152	7 148 1039 179						
	- Achieve incre - LDV turnover - Assume avera  New LDV qal/LDV New gal used Gal saved in F) Gal Saved Cum	assumed to be	FY01 7 169 1185	FY02 7 165 1153	FY03 7 156 1093 125 222	7 152 1066 152 375	7 148 1039						
	- Achieve incre - LDV turnover - Assume avera  New LDV gal/LDV New gal used Gal saved in FV	assumed to be	FY01 7 169 1185 33	FY02 7 165 1153 65	FY03 7 156 1093 125	7 152 1066 152	7 148 1039 179						
4. Fleet E	- Achieve incre - LDV turnover - Assume avera  New LDV gal/LDV New gal used Gal saved in Fi Gal Saved Cum Total gal saved	assumed to be to b	FY01 7 169 1185 33	FY02 7 165 1153 65	FY03 7 156 1093 125 222	7 152 1066 152 375	7 148 1039 179						<u> </u>
4. Fleet E	- Achieve incre - LDV turnover - Assume avera  New LDV qal/LDV New gal used Gal saved fur Total gal saved fficiency Improvemer - Reduced vehi	assumed to be tige new LDV in  In FY05 = ticle trips ticle loads	FY01 7 169 1185 33	FY02 7 165 1153 65	FY03 7 156 1093 125 222	7 152 1066 152 375	7 148 1039 179						_
4. Fleet E	- Achieve incre - LDV turnover - Assume avera  New LDV qal/LDV New qal used Gal saved in FY Gal Saved Zal Saved Total qal Saved fficiency Improvemer - Reduced vehi	assumed to be lige new LDV in Lin FY05 = the cle trips licle loads igher FE	1999 travels FY01 7 169 1185 33 33	FY02 7 165 1153 65 98	FY03 7 156 1093 125 222 554	7 152 1066 152 375 GGE	7 148 1039 179						_
4, Fleet E	- Achieve incre - LDV turnover - Assume avera  New LDV qal/LDV New gal used Gal saved in Fi Gal Saved Cum Total gal saved fficiency Improvemer - Reduced vehi - Increased veh - More use of h - Assume overa	assumed to be lige new LDV in Lin FY05 = the cle trips licle loads igher FE	reduction in	FY02 7 165 1153 65 98	FY03 7 156 1093 125 222 554	7 152 1066 152 375 GGE	7 148 1039 179 554	EV02	EV03	EVNA	EV05		_
4. Fleet E	- Achieve incre - LDV turnover - Assume avera  New LDV qal/LDV New gal used Gal saved in Fi Gal Saved Curr  Total gal saved - Reduced vehi - Increased veh - More use of h - Assume overa	assumed to be lige new LDV in Lin FY05 = the cle trips licle loads igher FE	reduction in  Assumed 10 Savings (GG	FY02 7 165 1153 65 98	FY03 7 156 1093 125 222 554	7 152 1066 152 375 GGE	7 148 1039 179 554	FY02	FY03	FY04	FY05	<u> </u>	_
	- Achieve incre - LDV turnover - Assume avera  New LDV qal/LDV New gal used Gal saved in Fi Gal Saved Curr  Total gal saved fficiency Improvemer - Reduced vehi - Increased veh - More use of h - Assume overa  Covered Baseline GGE 420,293	assumed to be sige new LDV in  In FY05 =  ts cle trips clete ips idle FE all two percent	1999 travels FY01 7 169 1185 33 33 33 reduction in Assumed 10 Savings (GG 42,029	FY02 7 165 1153 65 98	FY03 7 156 1093 125 222 554	7 152 1066 152 375 GGE	7 148 1039 179 554	FY02 16.811.72	FY03 25,217.58	FY04 33,623.44	FY05 42.029.30	=	
4. Fleet E	- Achieve incre - LDV turnover - Assume avera  New LDV qal/LDV New gal used Gal saved in Fi Gal Saved Curr  Total gal saved fficiency Improvemer - Reduced vehi - Increased veh - More use of h - Assume overa  Covered Baseline GGE 420,293	assumed to be sige new LDV in  In FY05 =  ts cle trips clete ips idle FE all two percent	1999 travels FY01 7 169 1185 33 33 33 reduction in Assumed 10 Savings (GG 42,029	FY02 7 165 1153 65 98	FY03 7 156 1093 125 222 554	7 152 1066 152 375 GGE	7 148 1039 179 554				_	=	_
OVERALL PETROL FUEI STRATEG	- Achieve incre - LDV turnover - Assume avera  New LDV qal/LDV New gal used Gal saved in FT Gal Saved Cum Total qal saved - Reduced vehi - Increased veh - More use of h - Assume overa Covered Baseline GGE 420,293	assumed to be ige new LDV in the color of th	1999 travels FY01 7 169 1185 33 33 33 reduction in Assumed 10 Savings (GG 42,029	FY02 7 165 1153 65 98	FY03 7 156 1093 125 222 554	7 152 1066 152 375 GGE	7 148 1039 179 554				_		
OVERALL PETROL FUE	- Achieve incre - LDV turnover - Assume avera  New LDV qal/LDV New gal used Gal saved in FT Gal Saved Cum Total qal saved - Reduced vehi - Increased veh - More use of h - Assume overa Covered Baseline GGE 420,293	assumed to be sign new LDV in  In FY05 =  this cle trips sicle loads igher FE all two percent	1999 travels FY01 7 169 1185 33 33 33 reduction in Assumed 10 Savings (GG 42,029	FY02 7 165 1153 65 98	FY03 7 156 1093 125 222 554	7 152 1066 152 375 GGE	7 148 1039 179 554				_	<u>=</u>	
OVERALL PETROL FUEI STRATEGOPTION 1	- Achieve incre - LDV turnover - Assume avera  New LDV qal/LDV New gal used Gal saved in FT Gal Saved in TOTAL gal saved  Ficiency Improvemer - Reduced vehi - Increased veh - More use of h - Assume overa  Covered Baseline GGE 420,293	assumed to be ige new LDV in the ige new LDV in the ige in the ige is a second in the ige i	1999 travels FY01 7 169 1185 33 33 33 reduction in Assumed 10 Savings (GG 42,029	FY02 7 165 1153 65 98	FY03 7 156 1093 125 222 554	7 152 1066 152 375 GGE	7 148 1039 179 554				_		_
OVERALL PETROL FUE!  STRATEC OPTION  1 2 3	- Achieve incre - LDV turnover - Assume avera  New LDV qal/LDV New qal used Gal saved in FT Gal Saved in TOtal qal saved - Reduced vehi - Increased vehi - More use of h - Assume overa Covered Baseline GGE 420,293 - REDUCTIONS FOR	assumed to be ige new LDV in the interval of t	1999 travels FY01 7 169 1185 33 33 33 reduction in Assumed 10 Savings (GG 42,029	FY02 7 165 1153 65 98	FY03 7 156 1093 125 222 554	7 152 1066 152 375 GGE	7 148 1039 179 554				_		
OVERALL PETROL FUEL  STRATEC  OPTION  1 2	- Achieve incre - LDV turnover - Assume avera  New LDV qal/LDV New qal used Gal saved in FT Gal Saved in TOtal qal saved - Reduced vehi - Increased vehi - More use of h - Assume overa Covered Baseline GGE 420,293 - REDUCTIONS FOR	assumed to be signed new LDV in the signed n	1999 travels FY01 7 169 1185 33 33 33 reduction in Assumed 10 Savings (GG 42,029	FY02 7 165 1153 65 98	FY03 7 156 1093 125 222 554	7 152 1066 152 375 GGE	7 148 1039 179 554				_		
OVERALL PETROL FUEI  STRATEC  OPTION  1 2 3	- Achieve incre - LDV turnover - Assume avera  New LDV qal/LDV New qal used Gal saved in FT Gal Saved in TOtal qal saved - Reduced vehi - Increased vehi - More use of h - Assume overa Covered Baseline GGE 420,293 - REDUCTIONS FOR	assumed to be ige new LDV in the interval of t	1999 travels FY01 7 169 1185 33 33 33 reduction in Assumed 10 Savings (GG 42,029	FY02 7 165 1153 65 98	FY03 7 156 1093 125 222 554	7 152 1066 152 375 GGE	7 148 1039 179 554				_		

# **PANTEX**

		1999 (GAL)	GGE	1999 NON-R GAL	GGE	GAL	1999 EXEMI GGE	PT		2005 GOAL GGE REDUCT	<del>.</del>				
	GASOL DIESEL	209,716 97,344	209,716 111,654			0	0		209,716 111,654	_					
	TOTAL		321.370		77.128		•		244.242	48.848					
ET DATA	A -VIDS										_				
		1999 INVENTORY	NEW TOTAL	NEW AFV	2000	NEW TOTA	AL NEW AFV	2001	NEW TOTAL	NEW AEV					
	LDV	271	50	50	287	38	12	294	35	35					
	MDV HDV	7 16	<u>0</u> 5	0	7 16	0	0	7 16	0	<u>0</u>					
	AFV	63							•	<u> </u>					
	LDV	GASOL 208	DIESEL 3	EXEMPT 0						_					
	MDV HDV	0	7 16							=					
										_					
ET FUEL	. ECONOMY	(NEW ACC	(UISITIONS)	GSA Lease	d Vehicle Data	a									
	Vehicle Type Make	Model	Cylinders	Drive	1999 Acquisitions	Fuel Econo	omy Info Hwy FE	Combined FE			_				
		Model	Cylinders						_	_					
	1500 1500	1		5	13 14	18 18	15 16	0.336538462							
	Countour	5		1	22	31	25	0.039516129							
	Crown Vic Ram 1500	3		11	18 16	25 21	21 18	0.613839286							
	Tahoe	29		19	15	19	17	1.146666667							
										_					
						Baseline A			16.8 17.8	_					
						FY2002 FE FY2005 FE	Goal		19.8	_					
		* Fuel econo	omy values fron	n DOF fleet fue	economy guide	a .			_						
.==-::			,								_				
ATEGY											_				
	1. BIODIESEL														
		- Pantex has	s HDV fleet iesel use remair	ns constant thre	ough FY2005							_			
			tal conversion											<del></del>	
	Fy2005	FY2005		EQUIV FY20			FY01	FY02	FY03	FY04	FY05				
	Diesel (gal)	B20 USE (g	al)	FUEL DISPL	(GGE)		20,165	20.405		20.405		_			
	97,344	99,243		20,165			20,165	20,165	20,165	20,165	20,165				
	2. AFV ACQU	ISITIONS - VII	DS	I5 miles) = CNG	(onsite); biodie	seal (aneita)									
		- Pantex not	t in MSA			sei (Olisite)									
		- Non-AFV a	cquisition rates tion rate assum	s assumed sam	e as FY2001										
		<ul> <li>All acquisi</li> </ul>	tions assumed	to be LDV											
		- LDV turno	ver assumed to with onsite CNG	be five years	to phase it out										
															_
		- Mix of AFV	s based on 199	9 purchased (1	00% E85)										
		- Mix of AFV - Avg annua	s based on 199 LDV fuel use :	9 purchased (1 = 209716/208 =	00% E85)										_
		- Mix of AFV - Avg annua	s based on 199 LDV fuel use = med 75% E85 u	9 purchased (1 = 209716/208 =	00% E85) 1008 GGE		2000		0000		0004		0005		
		- Mix of AFV - Avg annua - FFVs assu	/s based on 199 al LDV fuel use = med 75% E85 u 2000 Total	9 purchased (1 = 209716/208 = se AFV	00% E85) 1008 GGE 2001 Total	AFV	2002 Total	AFV	2003 Total	AFV	2004 Total	AFV	2005 Total	AFV_	
		- Mix of AFV - Avg annua - FFVs assu	s based on 199 ILDV fuel use = med 75% E85 u 2000	9 purchased (1 = 209716/208 = se	00% E85) 1008 GGE 2001	AFV 26		AFV 26	2003 Total 35	AFV 26		AFV 26		AFV 26	
		- Mix of AFV - Avg annua - FFVs assu	/s based on 199 al LDV fuel use = med 75% E85 u 2000 Total	9 purchased (1 = 209716/208 = se AFV	00% E85) 1008 GGE 2001 Total		Total		Total 35		Total		Total		
		- Mix of AFV - Avg annua - FFVs assu LDV MDV HDV	/s based on 199 il LDV fuel use : med 75% E85 u 2000 Total 38	9 purchased (1 = 209716/208 = se AFV 12	00% E85) 1008 GGE 2001 Total 35	26	Total		35 AFV Infra		Total 35	26	Total 35	<u>26</u>	
		- Mix of AFV - Avq annua - FFVs assu  LDV MDV HDV  Total AFVs	/s based on 199 Il LDV fuel use : med 75% E85 u 2000 Total 38	9 purchased (1 = 209716/208 = se AFV 12	00% E85) 1008 GGE 2001 Total 35	26	Total		Total 35 AFV Infra (\$)		Total		Total		
		- Mix of AFV - Avg annua - FFVs assu LDV MDV HDV Total AFVs	/s based on 199 Il LDV fuel use : med 75% E85 u 2000 Total 38 in Service in FY	9 purchased (1 = 209716/208 = se AFV 12	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) ii	26	Total		35 AFV Infra		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
		- Mix of AFV - Avq annua - FFVs assu  LDV MDV HDV  Total AFVs	/s based on 199 Il LDV fuel use : med 75% E85 u 2000 Total 38	9 purchased (1 = 209716/208 = se AFV 12	00% E85) 1008 GGE 2001 Total 35	26	Total		Total 35 AFV Infra (\$)		Total 35	26	Total 35	<u>26</u>	
	3. Fuel Econo	- Mix of AFV - Avg annua - FFVs assu LDV MDV HDV Total AFVs E85 FFV	(s based on 199 at LDV fuel use = 1 LDV fuel use = 2 med 75% E85 u 2000 Total 38 in Service in FY 130 130	9 purchased (1 = 209716/208 = se AFV 12	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) ii	26	Total		Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
	3. Fuel Econo	- Mix of AFV - Avg annua - FFVs assu  LDV MDV HDV Total AFVs  E85 FFV Total	's based on 199 at LDV fuel use in LDV fuel use in Ed S u 2000 Total 38 in Service in FY 130 130 130	9 purchased (1 = 209716/208 = se  AFV 12  2005Total AF F	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280	26 n FY2005	Total 35		Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
	3. Fuel Econo	- Mix of AFV - Avg annua - FFVs assu  LDV MDV HDV Total AFVs  E85 FFV Total	's based on 199 I LDV fuel us med 75% E85 u 2000 Total 38  in Service in FY 130 130 adually increas	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) ii	26 n FY2005	Total 35		Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
	3. Fuel Econo	- Mix of AFV - Avg annua - FFVs assu  LDV MDV HDV Total AFVs  E85 FFV Total	's based on 199 I LDV fuel ut	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280	26 n FY2005	Total 35		Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
	3. Fuel Econo	- Mix of AFV - Avg annua - FFVs assu  LDV MDV HDV Total AFVs  E85 FFV Total	's based on 199 at IDV fuel us	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280	26 n FY2005	Total 35		Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
	3. Fuel Econo	- Mix of AFV - Avg annua - FFVs assu  LDV MDV HDV Total AFVs  E85 FFV Total	's based on 199 il LDV fuel use med 75% E85 u  2000 Total 38 in Service in FY 130 130 130 -FY01 = 0.5 -FY02 = 1.0 -FY03 = 2.5 -FY04 = 2.5	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280	26 n FY2005	Total 35		Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
	3. Fuel Econo	- Mix of AFV - Avg annua - FFVs assu  LDV MDV HDV  Total AFVs  E85 FFV Total  omy Increases - Require gr	's based on 199 il LDV fuel us med 75% E85 u  2000 Total 38  in Service in FY  130 130	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE 2001 Total 35 uel Use (GGE) i 98280 98280 98280	n FY2005	Total 35		Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
	3. Fuel Econo	- Mix of AFV - Avg annua - FFVs assu  LDV MDV HDV Total AFVs E85 FFV Total omy Increases - Require gr	in Service in FY  130  130  130  130  130  130  130  13	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280 9810  ent with FY02 an	n FY2005  ad FY05 goals	Total 35	26	Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
	3. Fuel Econo	- Mix of AFV - Avg annua - FFVs assu  LDV MDV HDV Total AFVs E85 FFV Total omy Increases - Require gr	in Service in FY  130  130  130  130  130  130  130  13	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280 9810  ent with FY02 an	n FY2005  ad FY05 goals	Total 35	26	Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
	3. Fuel Econo	- Mix of AFV - Avg annua - FFVs assu - MDV - Total AFVs - Require gr - Achieve in - LDV turno - Assume as	's based on 199 I LDV fuel use med 75% E85 u 2000 Total 38 in Service in FY 130 130 130 -FY01 = 0.5 -FY02 = 1.0 -FY03 = 2.0 -FY04 = 5.5 -FY05 = 3.0 creased FE throver assumed to rerage new LDV FY01	9 purchased (1 = 209716/208 = se  AFV 12  2005Total AF F  ing FE consiste mpg increase ing increase mpg increase mpg increase fing increase ing increase mpg increase mpg increase mpg increase ing increase mpg increase mpg increase mpg increase ing increase mpg increase	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280 ent with FY02 an	n FY2005  In FY2005  In FY2005  In FY2005  In FY05 qoals  In FY05 qoals  In FY06 qoals	Total 35  If hybrids  all/yr and avg 16  FY05	26	Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
	3. Fuel Econo	- Mix of AFV - Avg annua - FFVs assu - FFVs assu - FFVs assu - FFVs assu - MDV - HDV - Total AFVs - E85 FFV - Total - Require gr - Achieve in - LDV turno - Assume av - New LDV	Is based on 199 at IDD feel to 1	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280 98280 ent with FY02 an	n FY2005  and FY05 qoals  e types, use of sed on 1008 g FY04 9	Total 35  If hybrids  all/yr and avg 16  FY05 9	26	Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
	3. Fuel Econo	- Mix of AFV - Avg annua - FFVs assu - MDV - MDV - Total AFVs - E85 FFV - Total - Require gr - Achieve in - LDV turno - Assume av - New LDV - qal/LDV - New gal use	's based on 199 il LDV fuel used on 199 il LDV fuel used 15% E85 u 2000 Total 38 in Service in FY 130 130 130 130 130 130 130 130 130 130	apurchased (1 = 209716/208 = se    AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280  ent with FY02 an ent with FY02 an FY03 9 898 8085	26 n FY2005 ad FY05 goals etypes, use of sed on 1008 g FY04 9 875 7876	Total 35  Invivids  allyr and avg 16  FY05 9 853 7678	26	Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
	3. Fuel Econo	- Mix of AFV - Avg annua - FFVs assu - FFVs assu  LDV MDV HDV Total AFVs E85 FFV Total - Require gr - LDV turno - Assume av  New LDV qal/LDV New gal use Gal saved in	's based on 199 in LDV fuel us in LDV fuel us in LDV fuel us in Service in FY 130 130 130 130 130 130 130 130 130 130	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280 ent with FY02 an FY03 9 898 898 8085 534	26 n FY2005 ad FY05 qoals e types, use of sed on 1008 g FY04 9 875 7876 987	Total 35	.8 mpq	Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
	3. Fuel Econo	- Mix of AFV - Avg annua - FFVs assu - Total AFVs - Require gr - Achieve in - LDV turno - Assume an - Assume an - New LDV gal/LDV New gal use Gal saved in Gal Saved in	Is based on 199 at 10 LDV fuel us 10 LDV fuel us 10 LDV fuel us 10 LDV fuel us 13 at 130 at 1	apurchased (1 = 209716/208 = se    AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280  ent with FY02 an ent with FY02 an FY03 9 898 8085	26 n FY2005 ad FY05 goals etypes, use of sed on 1008 g FY04 9 875 7876 987 1808	Total 35	26	Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
	3. Fuel Econo	- Mix of AFV - Avg annua - FFVs assu - Total AFVs - Require gr - Achieve in - LDV turno - Assume an - Assume an - New LDV gal/LDV New gal use Gal saved in Gal Saved in	's based on 199 in LDV fuel us in LDV fuel us in LDV fuel us in Service in FY 130 130 130 130 130 130 130 130 130 130	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280 ent with FY02 an FY03 9 898 898 8085 534	26 n FY2005 ad FY05 qoals e types, use of sed on 1008 g FY04 9 875 7876 987	Total 35	.8 mpq	Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
	3. Fuel Econo	- Mix of AFV - Avg annua - FFVs assu - Mix assume and a second assume and a second assume and a second assumed ass	(s based on 199 at 150 bits of 1	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280 ent with FY02 an FY03 9 898 898 8085 534	26 n FY2005 ad FY05 goals etypes, use of sed on 1008 g FY04 9 875 7876 987 1808	Total 35	.8 mpq	Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
		- Mix of AFV - Avg annua - FFVs assu - Mix assu - Mix assu - Require gr - Achieve in - LDV turno - Assume av - New LDV - New gal usa - Gal saved in - Gal Saved of - Total gal sa - Ency Improve - Reduced v - Increased	's based on 199 I LDV fuel use med 75% E85 u 2000 Total 38  in Service in FY 130 130 130	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280 ent with FY02 an FY03 9 898 898 8085 534	26 n FY2005 ad FY05 goals etypes, use of sed on 1008 g FY04 9 875 7876 987 1808	Total 35	.8 mpq	Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
		- Mix of AFV - Avg annua - FFVs assu - HDV - Total AFVs - E85 FFV - Total - Total AFVs - Require gr - Achieve in - LDV turno - Assume av - New gal use - Gal saved in - Gal Saved in - Total gal sa - Require gr - Total gal sa - Require gr	S based on 199	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280 ent with FY02 an entwith FY02 an FY03 9 898 8085 534 821	26 n FY2005 ad FY05 goals etypes, use of sed on 1008 g FY04 9 875 7876 987 1808 4397	Total 35  I hybrids  all/yr and avg 16  FY05 9 853 7678 1196 3003 GGE	.8 mpq	Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
		- Mix of AFV - Avg annua - FFVs assu - MDV - MDV - Total AFVs - Require gr - Achieve in - LDV turno - Assume av - New LDV - Gal/LDV - New gal use - Gal saved if - Gal Saved if - Total gal sa - FReduced v - Increased - More use av - Assume ov - Assume ov - Assume ov	S based on 199	9 purchased (1 = 209716/208 = se  AFV 12  2005Total AF F  2005	00% E85) 1008 GGE  2001 Total 35  98280 98280 ent with FY02 an ection of vehicle 16934 mi/yr ba FY03 9 898 8085 534 821	26 n FY2005 ad FY05 goals etypes, use of sed on 1008 g FY04 9 875 7876 987 1808 4397	Total 35  I hybrids  all/yr and avg 16  FY05 9 853 7678 1196 3003 GGE	.8 mpg	Total 35  AFV Infra (\$)  50000	26	FY01 19656	FY02 39312	Total 35 FY03	<u>26</u> 	
		- Mix of AFV - Avg annua - FFVs assu - HDV - Total AFVs - Require gr - Achieve in - LDV turno - Assume an - Achieve in - LDV turno - Assume an - Achieve in - LDV turno - Assume an - Total gal sa - Total gal sa - Reduced v - Reduced v - Increased - More use o - Assume o	Is based on 199 at 1DV fuel us 10DV fuel us 1DV fuel us 1 as a usually increas adually increas 130 adually increas 130 adually increas 130 adually increas 150 acreased FE throw the 150 acreased FE throw 150 acreased FE t	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280 98280 ent with FY02 an ection of vehicle 3:16934 mi/yr ba FY03 9 898 8085 534 821  LDV fleet GGE 1	26 n FY2005 ad FY05 goals etypes, use of sed on 1008 g FY04 9 875 7876 987 1808 4397	Total 35  I hybrids  all/yr and avg 16  FY05 9 853 7678 1196 3003 GGE	.8 mpq	Total 35 AFV Infra (\$)		Total 35 FY01	26 FY02	Total 35 FY03	<u>26</u> 	
		- Mix of AFV - Avg annua - FFVs assu - MDV - MDV - Total AFVs - Require gr - Achieve in - LDV turno - Assume av - New LDV - Gal/LDV - New gal use - Gal saved if - Gal Saved if - Total gal sa - FReduced v - Increased - More use av - Assume ov - Assume ov - Assume ov	Is based on 199 at 1DV fuel us 10DV fuel us 1DV fuel us 1 as a usually increas adually increas 130 adually increas 130 adually increas 130 adually increas 150 acreased FE throw the 150 acreased FE throw 150 acreased FE t	9 purchased (1 = 209716/208 = se  AFV 12  2005Total AF F  2005	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280 98280 ent with FY02 an ection of vehicle 3:16934 mi/yr ba FY03 9 898 8085 534 821  LDV fleet GGE 1	26 n FY2005 ad FY05 goals etypes, use of sed on 1008 g FY04 9 875 7876 987 1808 4397	Total 35  I hybrids  all/yr and avg 16  FY05 9 853 7678 1196 3003 GGE	.8 mpg	Total 35  AFV Infra (\$)  50000	26	FY01 19656	FY02 39312	Total 35 FY03	<u>26</u> 	
	4. Fleet Effici	- Mix of AFV - Avg annua - FFVs assu - Achieve in - Lov turno - Assume av - Achieve in - Lov turno - Assume av - Achieve in - Lov turno - Assume av - Achieve in - Lov turno - Assume av - Assume av - Assume av - Reduced v - Increased - More use c - Assume ov - Covered - Baseline GC 2444,242	's based on 199 I LDV fuel use med 75% E85 u 2000 Total 38 in Service in FY 130 130 130 130	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280 98280 ent with FY02 an ection of vehicle 3:16934 mi/yr ba FY03 9 898 8085 534 821  LDV fleet GGE 1	26 n FY2005 ad FY05 goals etypes, use of sed on 1008 g FY04 9 875 7876 987 1808 4397	Total 35  I hybrids  all/yr and avg 16  FY05 9 853 7678 1196 3003 GGE	.8 mpq	AFV Infra (\$) 50000	FY03	FY01  19656  FY04	FY02 39312 FY05	Total 35 FY03	<u>26</u> 	
ALL PETI	4. Fleet Efficie	- Mix of AFV - Avg annua - FFVs assu - Achieve in - Lov turno - Assume av - Achieve in - Lov turno - Assume av - Achieve in - Lov turno - Assume av - Achieve in - Lov turno - Assume av - Assume av - Assume av - Reduced v - Increased - More use c - Assume ov - Covered - Baseline GC 2444,242	S based on 199	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280 98280 ent with FY02 an ection of vehicle 3:16934 mi/yr ba FY03 9 898 8085 534 821  LDV fleet GGE 1	26 n FY2005 ad FY05 goals etypes, use of sed on 1008 g FY04 9 875 7876 987 1808 4397	Total 35  I hybrids  all/yr and avg 16  FY05 9 853 7678 1196 3003 GGE	.8 mpq	AFV Infra (\$) 50000	FY03	FY01  19656  FY04	FY02 39312 FY05	Total 35 FY03	<u>26</u> 	
ALL PETI	4. Fleet Efficience ROL FUEL RESTRATEGY	- Mix of AFV - Avg annua - FFVs assu - Achieve in - Lov turno - Assume av - Achieve in - Lov turno - Assume av - Achieve in - Lov turno - Assume av - Achieve in - Lov turno - Assume av - Assume av - Assume av - Reduced v - Increased - More use c - Assume ov - Covered - Baseline GC 2444,242	S based on 199	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280 98280 ent with FY02 an ection of vehicle 3:16934 mi/yr ba FY03 9 898 8085 534 821  LDV fleet GGE 1	26 n FY2005 ad FY05 goals etypes, use of sed on 1008 g FY04 9 875 7876 987 1808 4397	Total 35  I hybrids  all/yr and avg 16  FY05 9 853 7678 1196 3003 GGE	.8 mpq	AFV Infra (\$) 50000	FY03	FY01  19656  FY04	FY02 39312 FY05	Total 35 FY03	<u>26</u> 	
ALL PETI	4. Fleet Efficience ROL FUEL RESTRATEGY OPTION	- Mix of AFV - Avg annua - FFVs assu - Achieve in - Lov turno - Assume av - Achieve in - Lov turno - Assume av - Achieve in - Lov turno - Assume av - Achieve in - Lov turno - Assume av - Require gr - Achieve in - Lov turno - Assume av - Assume av - Assume av - Covered - More use c - Assume ov - Covered - Baseline GC - 244,242	S based on 199	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280 98280 ent with FY02 an ection of vehicle 3:16934 mi/yr ba FY03 9 898 8085 534 821  LDV fleet GGE 1	26 n FY2005 ad FY05 goals etypes, use of sed on 1008 g FY04 9 875 7876 987 1808 4397	Total 35  I hybrids  all/yr and avg 16  FY05 9 853 7678 1196 3003 GGE	.8 mpq	AFV Infra (\$) 50000	FY03	FY01  19656  FY04	FY02 39312 FY05	Total 35 FY03	<u>26</u> 	
ALL PETI	4. Fleet Efficience ROL FUEL RESTRATEGY	- Mix of AFV - Avg annua - FFVs assu - Achieve in - Lov turno - Assume av - Achieve in - Lov turno - Assume av - Achieve in - Lov turno - Assume av - Achieve in - Lov turno - Assume av - Require gr - Achieve in - Lov turno - Assume av - Assume av - Assume av - Covered - More use c - Assume ov - Covered - Baseline GC - 244,242	S based on 199	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280 98280 ent with FY02 an ection of vehicle 3:16934 mi/yr ba FY03 9 898 8085 534 821  LDV fleet GGE 1	26 n FY2005 ad FY05 goals etypes, use of sed on 1008 g FY04 9 875 7876 987 1808 4397	Total 35  I hybrids  all/yr and avg 16  FY05 9 853 7678 1196 3003 GGE	.8 mpq	AFV Infra (\$) 50000	FY03	FY01  19656  FY04	FY02 39312 FY05	Total 35 FY03	<u>26</u> 	
ALL PETI	4. Fleet Efficience ROL FUEL RE STRATEGY OPTION 1	- Mix of AFV - Avg annua - FFVs assu - Achieve in - Lov turno - Assume av - Achieve in - Lov turno - Assume av - Achieve in - Lov turno - Assume av - Achieve in - Lov turno - Assume av - Require gr - Achieve in - Lov turno - Assume av - Assume av - Assume av - Covered - More use c - Assume ov - Covered - Baseline GC - 244,242	S based on 199	9 purchased (1 = 209716/208 = se  AFV	00% E85) 1008 GGE  2001 Total 35  uel Use (GGE) i 98280 98280 98280 ent with FY02 an ection of vehicle 3:16934 mi/yr ba FY03 9 898 8085 534 821  LDV fleet GGE 1	26 n FY2005 ad FY05 goals etypes, use of sed on 1008 g FY04 9 875 7876 987 1808 4397	Total 35  I hybrids  all/yr and avg 16  FY05 9 853 7678 1196 3003 GGE	.8 mpq	AFV Infra (\$) 50000	FY03	FY01  19656  FY04	FY02 39312 FY05	Total 35 FY03	<u>26</u> 	

# **RICHLAND-HANFORD**

126,172

TOTAL

OTAL FUEL USE	1000		1000 NOV B 2	AD		1999 EXEMF	от		2005 0041	_				
	1999 (GAL)	GGE	1999 NON-RO GAL	GGE	GAL	GGE	4		2005 GOAL GGE REDUCT	<del>.</del>				
GASOL DIESEL	499,704 114,719	499,704 131,582			37873	37873		461,831 131,582	_					
TOTAL		631,286		-		37,873		593,413	118,683					
EET DATA -VIDS										_				
	1999 INVENTORY	NEW TOTAL	NEW AFV	2000 INVENTORY	NEW TOTAL	NEW AFV	2001 INVENTORY	NEW TOTAL	NEW AFV	_				
LDV	551	7	7	820	10	10	820	7	7					
MDV HDV	823								_					
AFV	84								_					
LDV	GASOL 551	DIESEL 0	EXEMPT 92						_					
MDV	0								_					
HDV	663	160	Estimated						_					
EET FUEL ECONOM	Y (NEW ACQ	UISITIONS) -	GSA Leased	Vehicle Data										
Vehicle Type		0.1.	B	1999 Acquisitions	Fuel Econom		Combined FE			_				
Make	Model	Cylinders	Drive	Acquisitions	CITY FE	Hwy FE	Combined FE	_	_					
astro			1	15	19	17	0.060350877	_						
cherokee			7	16	20	18	0.398125							
durango F250			8	15 13	20 18	17 15	0.118333333 0.538461538							
S10			1	17	21	19	0.053781513							
Tahoe			12	15	19	17	0.724210526							
Windstar			1	15	23	18	0.056231884							
					Baseline Ave			16.4	_					
					FY2002 FE G			17.4 19.4	_					
	* Fuel acono	my values from	DOE fleet fuel o	conomy quida		-								
	ruei econo	illy values from	DOE neet ruer e	conomy guide						_				
RATEGY										_				
1. BIODIESE														
		s MDV & HDV fl sel use remains		ah FY2005								_		
		al conversion to										_	<del></del>	
Fy2005	FY2005		EQUIV FY2005	5		FY01	FY02	FY03	FY04	FY05				
Diesel (gal)	B20 USE (ga	)	FUEL DISPL (	GGE)										
117,484	119,775		24,337			24,337	24,337	24,337	24,337	24,337				
2. AFV ACQI	UISITIONS - VID	S									_			
	- AFV Refuel - Richland no	ing access (< 15	miles) = LPG (r	orivate)										_
		quisition assun	ned same as FY	2001										
	- Afv acquisi	tion assumed 75 ions assumed to	5%											_
		er assumed to b												
	- Mix of AFV:	based on 1999	purchased (100	1% E85)										
	- FFVs assur	LDV fuel use = ned 75% E85 us	002801/(001+66) B	3) = 414 GGE										
				2001		2002		2003		2004		2005		
		2000						2003			AFV		AFV	
		2000 Total	AFV	Total	AFV	Total	AFV	Total	AFV	Total	AI V	Total		
	LDV		AFV 7		AFV 8	10tal	AFV 8	Total 10	AFV 8	10tai 10	8	10	8	
	LDV MDV HDV	Total		Total				10						
	MDV HDV	Total 7	7	Total 10	8			10 Afv Infra		10	8	10	<u>8</u>	FY
	MDV HDV Total AFVs in	Total 7	7	Total 10 el Use (GGE) in	8			Afv Infra						FYO
	MDV HDV Total AFVs in	Total 7  Service in FY2 40	7	Total 10 el Use (GGE) in	8			10 Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
	MDV HDV Total AFVs in E85 FFV Total	Total 7	7	Total 10 el Use (GGE) in	8			Afv Infra		10	8	10	<u>8</u>	
3. Fuel Econ	MDV HDV Total AFVs in	Total 7  Service in FY2 40	7	Total 10 el Use (GGE) in	8			Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
3. Fuel Econ	MDV HDV Total AFVs in E85 FFV Total	Total 7  Service in FY2 40	7 005Total AF Fue	Total 10 el Use (GGE) in 12420 12420	FY2005			Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
3. Fuel Econ	MDV HDV Total AFVs in E85 FFV Total	Total 7 Service in FY2 40 40 dually increasin	7 005Total AF Fue	Total 10 el Use (GGE) in 12420 12420	FY2005			Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
3. Fuel Econ	MDV HDV Total AFVs in E85 FFV Total	Total 7  1 Service in FY2 40 40  dually increasir - FY01 = 0.5 n - FY02 = 1.0 n	005Total AF Fue	Total 10 el Use (GGE) in 12420 12420	FY2005			Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
3. Fuel Econ	MDV HDV Total AFVs in E85 FFV Total	Total 7  1 Service in FY2 40 40 40  dually increasir - FY01 = 0.5 n - FY02 = 1.0 n - FY03 = 2.0 n	9005Total AF Fue	Total 10 el Use (GGE) in 12420 12420	FY2005			Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
3. Fuel Econ	MDV HDV Total AFVs in E85 FFV Total	Total 7  1 Service in FY2 40 40  dually increasir - FY01 = 0.5 n - FY02 = 1.0 n	out of the state o	Total 10 el Use (GGE) in 12420 12420	FY2005			Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
3. Fuel Econ	MDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra	Total 7  1 Service in FY2  40  40  40  - FY01 = 0.5 n  - FY02 = 1.0 n  - FY03 = 2.0 n  - FY05 = 3.0 n	005Total AF Fue	Total 10  El Use (GGE) in 12420 12420  It with FY02 and	FY2005	10		Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
3. Fuel Econ	MDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Require yra	Total 7  1 Service in FY2  40  40  40  40  40  40  40  FY01 = 0.5 n  FY02 = 1.0 n  FY04 = 2.5 m  FY05 = 3.0 n  FY05 = 3.0 n  reased FE throu	005Total AF Fue	Total 10 al Use (GGE) in 12420 12420 t with FY02 and	FY2005  I FY05 qoals  types, use of h	10	8	Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
3. Fuel Econ	MDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Require yra	Total 7  1 Service in FY2  40  40  - FY01 = 0.5 n  - FY03 = 2.0 n  - FY04 = 2.5 m  - FY04 = 2.5 m  - FY05 = 5.5 m	opposition of the selection of the selec	Total 10  al Use (GGE) in 12420 12420  It with FY02 and Ition of vehicle in 1790 mi/yr base	FY2005 if FY05 goals types, use of hid on 414 gal/yr	ybrids and avg 16.4 i	8 8	Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
3. Fuel Econ	MDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Achieve inc - LDV turnov - Assume av	Total 7  1 Service in FY2  40  40  40  40  40  40  40  FY01 = 0.5 n  FY02 = 1.0 n  FY04 = 2.5 m  FY05 = 3.0 n  FY05 = 3.0 n  reased FE throu	opposite the selection of the selection	Total 10  21 Use (GGE) in 12420 12420 14 with FY02 and 15 tion of vehicle 1790 mi/yr base FY02	FY2005 If FY05 goals types, use of hid on 414 gal/yr	ybrids and avg 16.4 i	mpq FY05	Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
3. Fuel Econ	MDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Achieve inc - LDV turnov - Assume av New LDV gal/LDV	Total 7  1 Service in FY2  40  40  40  - FY01 = 0.5 n  - FY03 = 2.0 n  - FY03 = 2.0 n  - FY05 = 3.0 n  reased FE through a same of the parage new LDV in t	opposition of the selection of the selec	Total 10  al Use (GGE) in 12420 12420  It with FY02 and Ition of vehicle in 1790 mi/yr base	FY2005  I FY05 qoals  types, use of hid on 414 gallyr FY03 2	ybrids and avg 16.4 i	8 8	Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
3. Fuel Econ	MDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Achieve inc - LDV turnov - Assume av  New LDV qal/LDV New qal uses	Total 7  1 Service in FY2 40 40 40 - FY01 = 0.5 n - FY02 = 1.0 r - FY03 = 2.0 n - FY04 = 2.5 m - FY04 = 2.5 m - FY05 = 2.0 n - FY04 = 2.5 m - FY05 = 2.0 n - FY05 = 2.0 n - FY05 = 2.0 n	005Total AF Fue	Total 10 2 Use (GGE) in 12420 12420 2 with FY02 and 15790 mi/yr base	FY2005  If FY05 qoals  types, use of hyd on 414 gal/yr FY03 2 369 737	ybrids and avg 16.4 i FY04 2 359 718	FY05 2 350 699	Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
3. Fuel Econ	MDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Achieve inc - LDV turnov - Assume av New LDV qal/LDV New gal Uses Gal saved in	Total 7  1 Service in FY2  40  40  40  - FY01 = 0.5 n  - FY03 = 2.0 n  - FY03 = 2.0 n  - FY05 = 3.0 n  reased FE throughter assumed to be rage new LDV in FY	opposite the second sec	Total 10 11 12420	FY2005  I FY05 goals  types, use of hid on 414 gallyr FY03 2 369 737	vbrids and avg 16.4 I FY04 2 359 718 110	mpq FY05 2 350 699 129	Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
3. Fuel Econ	MDV HDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Achieve inc - LDV turnov - Assume av New LDV qal/LDV New qal user Gal saved in Gal Saved C	Total 7  40 40 40 40  - FY01 = 0.5 m - FY02 = 1.0 m - FY04 = 2.5 m - FY05 = 3.0 m reased FE throter assumed to be rage new LDV if FY um	005Total AF Fue	Total 10 2 Use (GGE) in 12420 12420 2 with FY02 and 15790 mi/yr base	FY2005  If FY05 goals  Itypes, use of hid on 414 gal/yr  FY03 2 369 737 91 164	ybrids and avg 16.4 t FY04 2 359 718 110 274	FY05 2 350 699	Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
3. Fuel Econ	MDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Achieve inc - LDV turnov - Assume av New LDV qal/LDV New gal Uses Gal saved in	Total 7  40 40 40 40  - FY01 = 0.5 m - FY02 = 1.0 m - FY04 = 2.5 m - FY05 = 3.0 m reased FE throter assumed to be rage new LDV if FY um	opposite the second sec	Total 10 11 12420	FY2005  I FY05 goals  types, use of hid on 414 gallyr FY03 2 369 737	vbrids and avg 16.4 I FY04 2 359 718 110	mpq FY05 2 350 699 129	Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
	MDV HDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Achieve inc - LDV turnov - Assume av New LDV qal/LDV New gal usee Gal saved C Total gal saved C	Total 7  1 Service in FY2  40  40  40  - FY01 = 0.5 n  - FY03 = 2.0 n  - FY03 = 2.0 n  - FY05 = 3.0 n  reased FE through a sum of the service	opposite the second sec	Total 10 11 12420	FY2005  If FY05 goals  Itypes, use of hid on 414 gal/yr  FY03 2 369 737 91 164	ybrids and avg 16.4 t FY04 2 359 718 110 274	mpq FY05 2 350 699 129	Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
	MDV HDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Achieve in - LDV turnov - Assume av gal/LDV New gal use Gal saved in Gal Saved C Total gal save siency Improven - Reduced w	Total 7  1 Service in FY2  40  40  40  - FY01 = 0.5 m  - FY03 = 2.0 m  - FY03 = 2.0 m  - FY05 = 3.0 m  - FY05 = 3.0 m  - FY08 = 1.0 m  - FY08 = 1.0 m  - FY09	opposite the second sec	Total 10 11 12420	FY2005  If FY05 goals  Itypes, use of hid on 414 gal/yr  FY03 2 369 737 91 164	ybrids and avg 16.4 t FY04 2 359 718 110 274	mpq FY05 2 350 699 129	Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
	MDV HDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Achieve inc - LDV turnov - Assume av New LDV gal/LDV New gal uses Gal saved in Gal Saved C Total qal sav siency Improven - Reduced ve - Increased v	Total 7  40 40 40  - FY01 = 0.5 n - FY03 = 2.0 n - FY03 = 2.0 n - FY03 = 2.0 n - FY04 = 2.5 m reased FE through a summed to be graden on the summed to be gr	opposite the second sec	Total 10  2 Use (GGE) in 12420 12420 2 twith FY02 and 2 triple of the control of	FY2005  I FY05 qoals  types, use of hy d on 414 gal/yr FY03 2 369 737 91 164 402	ybrids and avg 16.4 t FY04 2 359 718 110 274	mpq FY05 2 350 699 129	Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
	MDV HDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Achieve inc - LDV turnov - Assume av New LDV Qal/LDV New gal use Gal saved in Gal Saved C Total gal saved c Total gal saved c - Increased v - Increased v - Increased v - More use o - Assume ov	Total 7  1 Service in FY2  40  40  40  - FY01 = 0.5 m  - FY03 = 2.0 m  - FY03 = 2.0 m  - FY05 = 3.0 m  - FY05 = 3.0 m  - FY08 = 1.0 m  - FY08 = 1.0 m  - FY09	7 005Total AF Fue  og FE consistent  pag increase pag increase pag increase pag increase pag increase fue years n 1999 travels 6 FY01 2 401 303 25 25	Total 10  2 Use (GGE) in 12420 12420  1 with FY02 and 2 with F	FY2005  I FY05 qoals  types, use of hy d on 414 gal/yr FY03 2 369 737 91 164 402	ybrids and avg 16.4 t FY04 2 359 718 110 274	FY05 2 350 699 129 402	Afv Infra (\$) 35000	8	FY01  2484	FY02 4968	10 FY03	<u>8</u> — FY04	
	MDV HDV HDV Total AFVs in E85 FFV Total nomy increases - Require gra - Achieve inc - LDV turnov - Assume av New LDV gal/LDV New gal use Gal saved in Gal Saved C Total qal sav ciency Improven - Reduced v - More use o - Assume ov Covered	Total 7  1 Service in FY2  40  40  40  - FY01 = 0.5 n  - FY03 = 2.0 n  - FY03 = 2.0 n  - FY05 = 3.0 n  reased FE throu  reased FE throu  reased fer throu  reased in FY05 = 1.0 n  FY05 = 1.0 n  FY05 = 1.0 n  reased in FY05 = 1.0 n  FY05 = 1.0 n  reased in FY05 = 1.0 n  r	opposite the second of the sec	Total 10 10 12420	FY2005  I FY05 qoals  types, use of hy d on 414 gal/yr FY03 2 369 737 91 164 402	ybrids and avg 16.4 t FY04 2 359 718 110 274	mpq FY05 2 350 699 129	Afv Infra		FY01	FY02	10 FY03	<u>8</u> — FY04	
	MDV HDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Achieve inc - LDV turnov - Assume av New LDV Qal/LDV New gal use Gal saved in Gal Saved C Total gal saved c Total gal saved c - Increased v - Increased v - Increased v - More use o - Assume ov	Total 7  1 Service in FY2  40  40  40  - FY01 = 0.5 n  - FY03 = 2.0 n  - FY03 = 2.0 n  - FY05 = 3.0 n  reased FE throu  reased FE throu  reased fer throu  reased in FY05 = 1.0 n  FY05 = 1.0 n  FY05 = 1.0 n  reased in FY05 = 1.0 n  FY05 = 1.0 n  reased in FY05 = 1.0 n  r	7 005Total AF Fue  og FE consistent  pag increase pag increase pag increase pag increase pag increase fue years n 1999 travels 6 FY01 2 401 303 25 25	Total 10 10 12420	FY2005  I FY05 qoals  types, use of hy d on 414 gal/yr FY03 2 369 737 91 164 402	ybrids and avg 16.4 t FY04 2 359 718 110 274	FY05 2 350 699 129 402	Afv Infra (\$) 35000	8	FY01  2484	FY02 4968	10 FY03	<u>8</u> — FY04	
4. Fleet Effic	MDV HDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Achieve inc - LDV turnov - Assume av New LDV qal/LDV New gal use Gal saved in Gal Saved C Total gal save ciency Improven - Reduced w - Increased v - More use o - Assume ov Covered Baseline GG 593,413	Total 7  1 Service in FY2  40  40  40  - FY01 = 0.5 n  - FY03 = 2.0 n  - FY03 = 2.0 n  - FY05 = 3.0 n  - FY05 = 3.0 n  - FY05 = 3.0 n  - FY05 = 3.1 n  - FY05 = 3.0 n  - FY05 = 3.1 n  - FY05 = 3.0 n  - FY05	7  005Total AF Fue  005	Total 10 10 112420 12420 12420 14 with FY02 and 15 with FY02 and 16 with FY02 and 17 with FY02 and 18 with FY02 18 with FY02 19 with FY02 20 390 780 48 73	FY2005  I FY05 qoals  types, use of hy d on 414 gal/yr FY03 2 369 737 91 164 402	ybrids and avg 16.4 t FY04 2 359 718 110 274	FY01	Afv Infra (\$) 35000	FY03	FY01  2484  FY04	FY05	10 FY03	<u>8</u> — FY04	
4. Fleet Effic	MDV HDV HDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Achieve in - LDV turnov - Assume av New LDV QuI/LDV New gal use- Gal saved in Gal Saved C Total qal save ciency Improven - Reduced v - More use o - Assume ov Covered Baseline GG 593,413	Total 7  40 40 40 40 40  dually increasir - FY01 = 0.5 n - FY03 = 2.0 n - FY03 = 2.0 n - FY05 = 3.0 n - FY05 = 3.0 n erassed FE throter assumed to be range new LDV in the control of the	7  O05Total AF Fue  og FE consistent  pg increase ppg inc	Total 10 10 112420 12420 12420 14 with FY02 and 15 with FY02 and 16 with FY02 and 17 with FY02 and 18 with FY02 18 with FY02 19 with FY02 20 390 780 48 73	FY2005  I FY05 qoals  types, use of hy d on 414 gal/yr FY03 2 369 737 91 164 402	ybrids and avg 16.4 t FY04 2 359 718 110 274	FY01	Afv Infra (\$) 35000	FY03	FY01  2484  FY04	FY05	10 FY03	<u>8</u> — FY04	
4. Fleet Effic	MDV HDV HDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Achieve in - LDV turnov - Assume av New LDV QuI/LDV New gal use- Gal saved in Gal Saved C Total qal save ciency Improven - Reduced v - More use o - Assume ov Covered Baseline GG 593,413	Total 7  1 Service in FY2 40 40 40 40  - FY01 = 0.5 n - FY03 = 2.0 n - FY03 = 2.0 n - FY05 = 3.0 n - FY05 = 3.0 n - FY05 = 3.0 n - FY05 = 1.0	7  O05Total AF Fue  og FE consistent  pg increase ppg inc	Total 10 10 112420 12420 12420 14 with FY02 and 15 with FY02 and 16 with FY02 and 17 with FY02 and 18 with FY02 18 with FY02 19 with FY02 20 390 780 48 73	FY2005  I FY05 qoals  types, use of hy d on 414 gal/yr FY03 2 369 737 91 164 402	ybrids and avg 16.4 t FY04 2 359 718 110 274	FY01	Afv Infra (\$) 35000	FY03	FY01  2484  FY04	FY05	10 FY03	<u>8</u> — FY04	
4. Fleet Effic	MDV HDV HDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Achieve in - LDV turnov - Assume av New LDV QuI/LDV New gal use- Gal saved in Gal Saved C Total qal save ciency Improven - Reduced v - More use o - Assume ov Covered Baseline GG 593,413	Total 7  1 Service in FY2 40 40 40 40  - FY01 = 0.5 n - FY03 = 2.0 n - FY03 = 2.0 n - FY05 = 3.0 n - FY05 = 3.0 n - FY05 = 3.0 n - FY05 = 1.0	7  O05Total AF Fue  og FE consistent  pg increase ppg inc	Total 10 10 112420 12420 12420 14 with FY02 and 15 with FY02 and 16 with FY02 and 17 with FY02 and 18 with FY02 18 with FY02 19 with FY02 20 390 780 48 73	FY2005  I FY05 qoals  types, use of hy d on 414 gal/yr FY03 2 369 737 91 164 402	ybrids and avg 16.4 t FY04 2 359 718 110 274	FY01	Afv Infra (\$) 35000	FY03	FY01  2484  FY04	FY05	10 FY03	<u>8</u> — FY04	
4. Fleet Effic  /ERALL PETROL FUEL R STRATEGY OPTION 1	MDV HDV HDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Achieve in - LDV turnov - Assume av New LDV QuI/LDV New gal use- Gal saved in Gal Saved C Total qal save ciency Improven - Reduced v - More use o - Assume ov Covered Baseline GG 593,413	Total 7  40 40 40 40 -FY01 = 0.5 n -FY02 = 1.0 n -FY03 = 2.0 n -FY05 = 3.0 n -FY05 = 1.0 n -FY05 = 1	7  O05Total AF Fue  og FE consistent  pg increase pg i	Total 10 10 112420 12420 12420 14 with FY02 and 15 with FY02 and 16 with FY02 and 17 with FY02 and 18 with FY02 18 with FY02 19 with FY02 20 390 780 48 73	FY2005  I FY05 qoals  types, use of hy d on 414 gal/yr FY03 2 369 737 91 164 402	ybrids and avg 16.4 t FY04 2 359 718 110 274	FY01	Afv Infra (\$) 35000	FY03	FY01  2484  FY04	FY05	10 FY03	<u>8</u> — FY04	
4. Fleet Effic  VERALL PETROL FUEL R  STRATEGY OPTION  1 2 3	MDV HDV HDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Achieve in - LDV turnov - Assume av New LDV QuI/LDV New gal use- Gal saved in Gal Saved C Total qal save ciency Improven - Reduced v - More use o - Assume ov Covered Baseline GG 593,413	Total 7  1 Service in FY2 40 40 40 40 -FY01 = 0.5 m -FY02 = 1.0 m -FY03 = 2.0 m -FY05 = 3.0 m -FY05 = 1.0 m -FY05	7  O05Total AF Fue  og FE consistent  pg increase pg i	Total 10 10 112420 12420 12420 14 with FY02 and 15 with FY02 and 16 with FY02 and 17 with FY02 and 18 with FY02 18 with FY02 19 with FY02 20 390 780 48 73	FY2005  I FY05 qoals  types, use of hy d on 414 gal/yr FY03 2 369 737 91 164 402	ybrids and avg 16.4 t FY04 2 359 718 110 274	FY01	Afv Infra (\$) 35000	FY03	FY01  2484  FY04	FY05	10 FY03	<u>8</u> — FY04	FY0 124
4. Fleet Effic  /ERALL PETROL FUEL R  STRATEGY OPTION  1 2	MDV HDV HDV HDV Total AFVs in E85 FFV Total nomy Increases - Require gra - Achieve in - LDV turnov - Assume av New LDV QuI/LDV New gal use- Gal saved in Gal Saved C Total qal save ciency Improven - Reduced v - More use o - Assume ov Covered Baseline GG 593,413	Total 7  40 40 40 40 40  - FY01 = 0.5 n - FY03 = 2.0 n - FY03 = 2.0 n - FY05 = 3.0 n - FY05 = 3.0 n - FY05 = 3.0 n - FY05 = 1.0 n - FY05 = 1.	7  O05Total AF Fue  og FE consistent  pg increase pg i	Total 10 10 112420 12420 12420 14 with FY02 and 15 with FY02 and 16 with FY02 and 17 with FY02 and 18 with FY02 18 with FY02 19 with FY02 20 390 780 48 73	FY2005  I FY05 qoals  types, use of hy d on 414 gal/yr FY03 2 369 737 91 164 402	ybrids and avg 16.4 t FY04 2 359 718 110 274	FY01	Afv Infra (\$) 35000	FY03	FY01  2484  FY04	FY05	10 FY03	<u>8</u> — FY04	

# **SNL-KIRTLAND**

TOTAL

		1999 (GAL)	GGE	GAL	GGE	1999 EXEMPT	GGE		TOTAL GGE	GGE REDUC	<u> </u>			
	GASOL DIESEL	55,003	266,912 63,088			18,000	18,000		248,912 63,088	_				
	TOTAL		330.000				18.000		312.000	62.400				
DATA	A -VIDS										_			
		1999 INVENTORY	NEW TOTAL	NEW AFV	2000 INVENTORY	NEW TOTAL	NEW AFV	2001 INVENTORY	NEW TOTAL	NEW AFV				
	LDV MDV	413 320	52 31	11	414 320	124 26	68	414 320	43	7				
	HDV AFV	30 84	14		30	4		30		_				
		GASOL	DIESEL	EXEMPT			VIDS-Gasol 0.935368043			_				
	LDV MDV	386	27 320	(assume all of	diesel)		0.935368043			_				
	HDV	0	30							_				
FUEL	ECONOMY	Y (NEW ACQL	JISITIONS) - (	GSA Leased	Vehicle Data									
	Vehicle Type Make	Model	Cylinders	Drive	1999 Acquisitions	Fuel Economy City FE	Info Hwy FE	Combined FE			_			
	1500 1500			1 2	13 14	18 18	15 16	0.067307692 0.128571429						
	cherokee			2	16	18 20	18	0.11375						
	Contour durango			2	20 15	28 20	23 17	0.087142857 0.118333333						
	F250			5	13	18	15	0.336538462						
	Ram 1500 suburban			2	16 14	21 16	18 15	0.111607143 0.134821429						
	tahoe			12	15 15	19 23	17 18	0.724210526 0.056231884						
	Windstar			1	15			0.056231664	_					
						Baseline Aver FY2002 FE Go	age FE al		16.5 17.5	_				
						FY2005 FE Go	al		19.5	=				
		* Fuel econor	ny values from	DOE fleet fuel	economy guide				_					<del></del>
GY														
	1. BIODIESEL		ad usa ramaina	constant thro	ugh EV200E									
		- Assume tota	sel use remains al conversion to	B20 by FY200	5								_	
	Fy2005	FY2005		EQUIV FY20			FY01	FY02	FY03	FY04	FY05			
	Diesel (gal) 55,003	B20 USE (gal) 56,075		FUEL DISPL 11,394	(GGE)		11,394	11,394	11,394	11,394	11,394	_		
:	2. AFV ACQU	- AFV Refuelii - SNL in MSA - Non-AFV ac - AFV acquisiti - All acquisiti - LDV turnove	ng access (< 15 and Albuquerq quisition rates a tion rates assur- ons assumed to er assumed to b	ue is AFV Use assumed same ned 75% since be LDV e five years	(govt), LPG (priv r City as FY2001 AFV User City			id						
	2. AFV ACQU	- AFV Refuelii - SNL in MSA - Non-AFV ac - AFV acquisi - All acquisiti - LDV turnove - Mix of AFVs - Avq annual	ng access (< 15 and Albuquerg quisition rates a tion rates assured to proper assumed to (50% CNG; 50% LDV fuel use = 2	ue is AFV Use assumed same med 75% since be LDV e five years 6 E85) 228753/386 = 5	r City e as FY2001 AFV User City	with 50% incren		d						
	2. AFV ACQU	- AFV Refuelii - SNL in MSA - Non-AFV ac - AFV acquisi - All acquisiti - LDV turnove - Mix of AFVs - Avq annual	and access (< 15 and Albuquerg quisition rates assur ons assumed to r assumed to b (50% CNG: 50% LDV fuel use = 2 med to use CNG	ue is AFV Use assumed same med 75% since be be LDV e five years 6 E85) 228753/386 = 5 3 75% of time;	93 GGE FFVs assumed	with 50% increm	nental cost pai		2003	ASV	2004 Total	AEV	2005	AEV
	2. AFV ACQUI	- AFV Refuelii - SNL in MSA - Non-AFV ac - AFV acquisi - All acquisii - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu	ng access (< 15 and Albuquerg quisition rates a tion rates assum ons assumed to er assumed to b (50% CNG; 50% LDV fuel use = 2 med to use CNG	ue is AFV Use assumed same med 75% since be LDV e five years 6 E85) 228753/386 = 5	r City as FY2001 AFV User City 93 GGE FFVs assumed	with 50% incren	nental cost pai	AFV 32	2003 Total 43	AFV 32	2004 Total 43	AFV 32	2005 Total 43	AFV 32
	2. AFV ACQUI	- AFV Refuelii - SNL in MSA - Non-AFV ac - AFV acquisi - All acquisiti - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu	and access (< 15 and Albuquerg quisition rates a tion rates assur ons assumed to er assumed to b (50% CNG; 50% LDV fuel use = 2 med to use CNG 2000 Total	ue is AFV Use assumed same med 75% since be be LDV e five years 6 E85) 228753/386 = 5 3 75% of time;	r City as FY2001 AFV User City 93 GGE FFVs assumed 2001 Total	with 50% incren 75% E85 use	nental cost pai	AFV	Total 43		Total		Total	
	2. AFV ACQUI	- AFV Refueli - SNL in MSA - Non-AFV ac - AFV acquisi - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV	ng access (< 15 and Albuguerg quisition rates as tion rates assumed to see assumed to foo CNG: 509 LOV fuel use = med to use CNG 2000 Total 124	ue is AFV Use assumed same med 75% since be LDV e five years 6 E85) 228753/386 = 5 6 75% of time; AFV 68	r City as FY2001 AFV User City 93 GGE FFVs assumed 2001 Total	with 50% incren 75% E85 use AFV 32	nental cost pai	AFV	Total		Total		Total	
	2. AFV ACQUI	- AFV Refuelii - SNL in MSA - Non-AFV acquisi - AFV acquisi - All acquisiti - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel	ng access (< 15 and Albuquerg quisition rates as tion rates assum ons assumed to er assumed to b (50% CNG; 50% LDV fuel use = / med to use CNC 2000 Total 124  Service in FY2/ 80	ue is AFV Use assumed same med 75% since be LDV e five years 6 E85) 228753/386 = 5 6 75% of time; AFV 68	City : as FY2001  AFV User City : 33 GGE FFVs assumed : 2001 Total 43  sel Use (GGE) in 35580	with 50% incren 75% E85 use AFV 32	nental cost pai	AFV	AFV Infra (\$) New CNG star	32	Total 43 FY01	32	Total 43	32
	2. AFV ACQUI	- AFV Refuelium - SNL in MSA - Non-AFV acu - SNL in MSA - Non-AFV acu - AFV acquisiti - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu LDV - MDV - MDV - MDV - MDV - MDV - MDV - Total AFVs in	ng access (s 15 and Albuquerg quisition rates assumed to rates assumed to rassumed to rassumed to rassumed to low flow flow flow flow flow flow flow	ue is AFV Use assumed same med 75% since be LDV e five years 6 E85) 228753/386 = 5 6 75% of time; AFV 68	City as FY2001 AFV User City of AFV User	with 50% incren 75% E85 use AFV 32	nental cost pai	AFV	AFV Infra	32	Total 43 FY01	32	Total 43	32
		- AFV Refuelium - SNL in MSA - Non-AFV ac - AFV acquisiti - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV  MDV  HDV  Total AFVs in CNG bi-fuel 885 FFV	ng access (s 15 and Albuquerg quisition rates assumed to rates assumed to rassumed to rassumed to rassumed to logo. Comment of the comment of	ue is AFV Use assumed same med 75% since be LDV e five years 6 E85) 228753/386 = 5 6 75% of time; AFV 68	2001 2001 2001 2001 2001 2001 2001 2001	with 50% incren 75% E85 use AFV 32	nental cost pai	AFV	AFV Infra (\$) New CNG star	32	Total 43 FY01 Inded	32 FY02	Total 43 FY03	32 FY04
		- AFV Refuelii - SNL in MSA - Non-AFV acquisi - AII acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total  Dmy Increases	ng access (< 15 and Albuquerg quisition rates assumed to rates assumed to rassumed to rassumed to rassumed to low to the rassumed to be rassumed to low to rate rate rate rate rate rate rate rate	ue is AFV Use ssumed same ned 75% since be LDV e five years (E85) 3 75% of time; AFV 68	2001 2001 2001 2001 2001 2001 2001 2001	with 50% increm 75% E85 use AFV 32 FY2005	nental cost pai	AFV	AFV Infra (\$) New CNG star	32	Total 43 FY01 Inded	32 FY02	Total 43 FY03	32 FY04
		- AFV Refuelii - SNL in MSA - Non-AFV acquisi - AII acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total  Dmy Increases	ng access (< 15 and Albuquerg quisition rates assumed to rates assumed to rassumed to rassumed to subject of the rassumed to rassumed to use CNC 2000 Total 124  Service in FY2: 80 80 80 160	ue is AFV Use ssumed same ned 75% since be LDV e five years (E85) 3 75% of time; - AFV 68	2001 Total 43  Iel Use (GGE) in 35580 35580 71160	with 50% increm 75% E85 use AFV 32 FY2005	nental cost pai	AFV	AFV Infra (\$) New CNG star	32	Total 43 FY01 Inded	32 FY02	Total 43 FY03	32 FY04
		- AFV Refuelii - SNL in MSA - Non-AFV acquisi - AII acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total  Dmy Increases	ng access (< 15 and Albuquerg quisition rates as suiton rates assumed to result of the rate as as a suiton rate a suiton rat	ue is AFV Uses ssumed samed sessumed se	2011 Total 43  Itel Use (GGE) in 35580 35580 71160	with 50% increm 75% E85 use AFV 32 FY2005	nental cost pai	AFV	AFV Infra (\$) New CNG star	32	Total 43 FY01 Inded	32 FY02	Total 43 FY03	32 FY04
		- AFV Refuelii - SNL in MSA - Non-AFV acquisi - AII acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV Total AFVs in CNG bi-fuel E85 FFV Total  Dmy Increases	ng access (< 15 and Albuquerg quisition rates as suiton rates	ue is AFV Usam ssumed samed med 75% since be LDV e five years 6 E85) 3 75% of time; - AFV 68 005Total AF Fu  g FE consiste	2011 Total 43  Itel Use (GGE) in 35580 35580 71160	with 50% increm 75% E85 use AFV 32 FY2005	nental cost pai	AFV	AFV Infra (\$) New CNG star	32	Total 43 FY01 Inded	32 FY02	Total 43 FY03	32 FY04
		- AFV Refuelib - SNL in MSA - Non-AFV ac - Non-AFV ac - AFV acquisit - AII acquisit - LDV turnov - Mix of AFV - Avq annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total - Require grad	ng access (< 15 and Albuquerg quisition rates as ton rates assumed to rassumed to rassumed to some the rassumed to some the rassumed to some t	ue is AFV Use assumed	93 GGE FFVs assumed  2001 Total 43  1816 193580 71160  as FY2001 Total 43	AFV 32  FY2005	2002 Total 43	AFV	AFV Infra (\$) New CNG star	32	Total 43 FY01 Inded	32 FY02	Total 43 FY03	32 FY04
		- AFV Refueling - SNL in MSA - Non-AFV ac - SNL in MSA - Non-AFV acquisit - AII acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV  MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total	ng access (s 15 and Albuquerg quisition rates assumed to the rassumed to the r	ue is AFV Use assumed	2001 Total 43  101 102 103 103 103 103 103 103 103 103 103 103	AFV 32  FY2005  I FY05 qoals	2002 Total 43	AFV 32	AFV Infra (\$) New CNG star	32	Total 43 FY01 Inded	32 FY02	Total 43 FY03	32 FY04
		- AFV Refueling - SNL in MSA - Non-AFV ac - SNL in MSA - Non-AFV acquisit - AII acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV  MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total	ng access (s 15 and Albuquerg quisition rates assumed to the rassumed to the r	ue is AFV Use assumed	93 GGE FFVs assumed  2001 Total 43  1816 193580 71160  as FY2001 Total 43	AFV 32  FY2005  I FY05 qoals	2002 Total 43	AFV 32	AFV Infra (\$) New CNG star	32	Total 43 FY01 Inded	32 FY02	Total 43 FY03	32 FY04
		- AFV Refuelium - SNL in MSA - Non-AFV acquisi - SNL in MSA - Non-AFV acquisi - All acquisiti - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total - Require grad - Require grad - Achieve incr - LDV turnove - Assume ave	ng access (s 15 and Albuquerg quisition rates assumed to the rassumed to the r	ue is AFV Uses assumed sasumed sasumed sasumed same med 75% since be LDV e five years 6 E85) 3 75% of time; 68  O05Total AF Fu  ug FE consiste pg increase pg increase pg increase pg increase pg increase ngh better sele e five years	1 City as FY2001 2 AFV User City was FY2001 2 AFV User City was FY2001 3 GGE 3	AFV 32  FY2005  I FY05 goals  Lypes, use of hydron 593 gallyr FY03	2002 Total 43 brids and avg 16.5 n	AFV 32	AFV Infra (\$) New CNG star	32	Total 43 FY01 Inded	32 FY02	Total 43 FY03	32 FY04
		- AFV Refuelii - SNL in MSA - Non-AFV acquisi - SNL in MSA - Non-AFV acquisi - All acquisiti - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total - Require graf  - Achieve inci - LDV turnove - Assume ave	ng access (< 15 and Albuquerg quisition rates as usual man albuquerg quisition rates as usual non assumed to be assumed to the assumed to be assumed to be assumed to the assumed to th	ue is AFV Use assumed	2001 2001 2001 2001 2001 2001 2001 2001	AFV 32  FY2005  I FY05 goals  types, use of hy d on 593 gallyr 7  FY03 11  529	2002 Total 43 brids and avg 16.5 n FY04 11 515	AFV 32 32 50 50 50 50 50 50 50 50 50 50 50 50 50	AFV Infra (\$) New CNG star	32	Total 43 FY01 Inded	32 FY02	Total 43 FY03	32 FY04
		- AFV Refuelium - SNL in MSA - Non-AFV acquisi - AII acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV - Total AFVs in - CNG bi-fuel - E85 FFV - Total - Total - Achieve inci - LDV turnove - Assume ave  New LDV - Qal/L DV - New LDV - Alv Qal used	ng access (< 15 and Albuquerg quisition rates assumed to rates assumed to rassumed to rassumed to rassumed to some displayment of the rassumed to large and rates assumed to large and rates and ra	ue is AFV Usem issumed sasumed sasumed sasumed same in the five years of E85)  AFV 68  GFE CONSTITUTE OF THE SAME IN THE SAME	2001 2001 2001 2001 2001 2001 2001 2001	AFV 32  FY2005  I FY05 goals  Lypes, use of hyde on 593 galfyr  FY03  11	2002 Total 43  brids and avg 16.5 n	AFV 32	AFV Infra (\$) New CNG star	32	Total 43 FY01 Inded	32 FY02	Total 43 FY03	32 FY04
		- AFV Refuelii - SNL in MSA - Non-AFV acquisi - SNL in MSA - Non-AFV acquisi - All acquisiti - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total - Require graf  - Achieve inci - LDV turnove - Assume ave	ng access (< 15 and Albuquerg quisition rates as a man Albuquerg quisition rates as suiton rates assumed to be assumed to be assumed to be assumed to be a man and a m	ue is AFV Use ssumed sam med 75% since be LDV e five years 6.228753/386 = 5 3 75% of time;  AFV 68  005Total AF Fu  005Total AF Fu  pg increase pg inc	2001 2001 2001 2001 2001 2001 2001 2001	AFV 32 FY2005 I FY05 goals types, use of hy d on 593 gall/yr FY03 11 529 5814	2002 Total 43 brids and avg 16.5 n FY04 11 515 5661	AFV 32	AFV Infra (\$) New CNG star	32	Total 43 FY01 Inded	32 FY02	Total 43 FY03	32 FY04
		- AFV Refuelii - SNL in MSA - Non-AFV acquisi - SNL in MSA - Non-AFV acquisi - All acquisiti - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total  DMY Increases - Require grad - Achieve incr - LDV turnove - Assume ave	ng access (< 15 and Albuguerg quisition rates assumed to the rassumed to the rassu	ue is AFV Uses assumed sassumed sassumed same med 75% since be LDV e five years (E85) 3 75% of time:  AFV 68  005Total AF Fu  ug FE consiste  ug increase upg inc	2001 2001 2001 2001 2001 2001 2001 2001	AFV 32  FY2005  FY2005  I FY05 goals  types, use of hy d on 593 gallyr — FY03  11 529 5814 709	2002 Total 43 brids and avg 16.5 n FY04 11 515 5661	AFV 32 32 51 51 51 501 5516 1007	AFV Infra (\$) New CNG star	32	Total 43 FY01 Inded	32 FY02	Total 43 FY03	32 FY04
	3. Fuel Econo	- AFV Refuelib - SNL in MSA - Non-AFV acquisi - SNL in MSA - Non-AFV acquisi - All acquisiti - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total - Require grad - Achieve incr - LDV turnove - Assume Avg - Ass	ng access (< 15 and Albuquerg quisition rates as a suit on rates as suit on rates as suit on rates as a suit on rate	ue is AFV Uses assumed sassumed sassumed same med 75% since be LDV e five years (E85) 3 75% of time:  AFV 68  005Total AF Fu  ug FE consiste  ug increase upg inc	2001 2001 2001 2001 2001 2001 2001 2001	AFV 32  FY2005  FY2005  I FY05 qoals  types, use of hy d on 593 qallyr  FY03  11  529  5814  709  1281	2002 Total 43 brids and avg 16.5 n FY04 11 515 5661 862 2142	AFV 32 32 51 51 51 501 5516 1007	AFV Infra (\$) New CNG star	32	Total 43 FY01 Inded	32 FY02	Total 43 FY03	32 FY04
	3. Fuel Econo	- AFV Refuelis - SNL in MSA - Non-AFV acquisi - SNL in MSA - Non-AFV acquisi - AII acquisiti - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total - Achieve incr - LDV turnove - Assume ave - Achieve incr - LDV turnove - Msw LDV  New LDV  New LDV  New LDV  Gal Saved Cu  Total gal save - Reduced vel	ng access (< 15 and Albuquerg quisition rates as suit and Albuquerg quisition rates as suit on rate and rate	ue is AFV Uses assumed sassumed sassumed same med 75% since be LDV e five years (E85) 3 75% of time:  AFV 68  005Total AF Fu  ug FE consiste  ug increase upg inc	2001 2001 2001 2001 2001 2001 2001 2001	AFV 32  FY2005  FY2005  I FY05 qoals  types, use of hy d on 593 qallyr  FY03  11  529  5814  709  1281	2002 Total 43 brids and avg 16.5 n FY04 11 515 5661 862 2142	AFV 32 32 51 51 51 501 5516 1007	AFV Infra (\$) New CNG star	32	Total 43 FY01 Inded	32 FY02	Total 43 FY03	32 FY04
	3. Fuel Econo	- AFV Refuelib - SNL in MSA - Non-AFV acquisi - SNL in MSA - Non-AFV acquisi - All acquisiti - LDV turnovs - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total  Total - Require grad - Achieve inci - LDV turnovs - Assume ave  New LDV gal/U, Dyl MSA Gal Saved Cu Total gal saved - Total gal saved - Achieve inci - LDV turnovs - Assume ave  New LDV gal/U, Dyl Total Gal Saved Cu Total gal saved - Total gal saved - Reduced vel - Increased vel - Reduced vel - Increased v	ng access (< 15 and Albuquerg quisition rates assumed to rates assumed to rassumed to rassumed to rassumed to low rates assumed to low	ue is AFV Uses assumed sassumed sassumed same med 75% since be LDV e five years (E85) 3 75% of time:  AFV 68  005Total AF Fu  ug FE consiste  ug increase upg inc	2001 2001 2001 2001 2001 2001 2001 2001	AFV 32  FY2005  FY2005  I FY05 qoals  types, use of hy d on 593 qallyr  FY03  11  529  5814  709  1281	2002 Total 43 brids and avg 16.5 n FY04 11 515 5661 862 2142	AFV 32 32 51 51 51 501 5516 1007	AFV Infra (\$) New CNG star	32	Total 43 FY01 Inded	32 FY02	Total 43 FY03	32 FY04
	3. Fuel Econo	- AFV Refuelis - SNL in MSA - Non-AFV acquisi - SNL in MSA - Non-AFV acquisi - All acquisiti - LDV turnove - Mix of AFVs - Avq annual - Bi-fuel assu  LDV MDV HDV  Total AFVs in CNG bi-fuel E85 FFV Total  Domy Increases - Require grae  - Achieve incr - LDV turnove - Assume ave - Mew LDV  New LDV  New LDV  Gal Saved Cu  Total gal save  increased ve - Increased ve	ng access (< 15 and Albuquerg quisition rates as suit and Albuquerg quisition rates as suit on rates as a suit of rates and rates as a suit of rates and rates as a suit of ra	ue is AFV Uses assumed sassumed sassumed sassumed same med 75% since be LDV e five years (E85) 3 75% of time:  AFV 68  005Total AF Fu  ug FE consiste  upg increase pag increa	2001 2001 2001 2001 2001 2001 2001 2001	AFV 32  FY2005  FY2005	2002 Total 43 brids and avg 16.5 n FY04 11 515 5661 862 2142	AFV 32 32 51 51 51 501 5516 1007	AFV Infra (\$) New CNG star	32	Total 43 FY01 Inded	32 FY02	Total 43 FY03	32 FY04
	3. Fuel Econo	- AFV Refuelib - SNL in MSA - Non-AFV acquisi - SNL in MSA - Non-AFV acquisi - All acquisiti - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV - Total AFVs in CNG bi-fuel - E85 FFV - Total - Total AFVs in - Require grad - Achieve inci - LDV turnove - Assume ave - Reduced vel - Increased vi - More use of - Assume ove - Covered	and access (< 15 and Albuquerg quisition rates assumed to branched and albuquerg quisition rates assumed to branched assumed to branched assumed to branched assumed to branched and albuquerg assumed to use CNC 2000  Total 124  Service in FY2: 80 80 160 160 160 160 160 160 160 160 160 16	ue is AFV Uses assumed sassumed for the sassumed	City - City - City - As FY2001 - AFV User City	AFV 32  FY2005  FY2005	2002 Total 43 brids and avg 16.5 n FY04 11 515 5661 862 2142	AFV 32 32 51 51 51 501 5516 1007	AFV Infra (\$) New CNG star	32	Total 43 FY01 Inded	32 FY02	Total 43 FY03	32 FY04
	3. Fuel Econo	- AFV Refuelib - SNL in MSA - Non-AFV acc - SNL in MSA - Non-AFV acc - AFV acculated a control of the control o	and access (< 15 and Albuquerg quisition rates assumed to branched and albuquerg quisition rates assumed to branched assumed to branched assumed to branched assumed to branched and albuquerg assumed to use CNC 2000  Total 124  Service in FY2: 80 80 160 160 160 160 160 160 160 160 160 16	ue is AFV Use assumed Sammed 75% since be LDV e five years 6 E85) AFV 68  GFE  AFV 68  GFE  AFV 68  ODSTotal AF Fu  g FE consiste  pg increase pg incr	City - City - City - As FY2001 - AFV User City	AFV 32  FY2005  FY2005	2002 Total 43  brids and avg 16.5 n  FY04 11 515 5661 862 2142 GGE	AFV 32 32 32 32 32 32 32 32 32 32 32 32 32	Total 43  AFV Infra (\$) New CNG stat 0	tion already fu	Total 43  FY01 Inded 14232	32 FY02	Total 43 FY03	32 FY04
	3. Fuel Econo	- AFV Refueling - SNL in MSA - Non-AFV acquisit - SNL in MSA - Non-AFV acquisit - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV - Total AFVs in CNG bi-fuel - E85 FFV - Total - Total - CNG bi-fuel - Require grad - Achieve inci - LDV turnove - Assume ave - Mew LDV - Qal/U, Dyl - More use of - Assume ove - Covered - Gaseline GGE 312,000	ng access (< 15 and Albuquerg quisition rates assumed to rates assumed to rassumed to rassumed to rassumed to subject to the rassumed to the r	ue is AFV Use ssumed sam med 75% since be LDV e five years 6 E85) AFV 68  ODSTotal AF For  G FE consiste  Increase Ing inc	2001 2001 2001 2001 2001 2001 2001 2001	AFV 32  FY2005  FY2005	2002 Total 43  brids and avg 16.5 n FY04 11 515 5661 862 2142 GGE	AFV 32 32 32 32 32 32 32 32 32 32 32 32 32	AFV Infra (\$) New CNG star 0	tion already fu	Total 43  FY01  Inded 14232	32 FY02	Total 43 FY03	32 FY04
LL PETI	3. Fuel Econo 4. Fleet Efficie	- AFV Refuelib - SNL in MSA - Non-AFV acc - SNL in MSA - Non-AFV acc - AFV acculated a control of the control o	ng access (< 15 and Albuquerg quisition rates assumed to rates assumed to rassumed to solve the rassumed to so	ue is AFV Use ssumed sam med 75% since be LDV e five years 6 E28753/386 = 5 3 75% of time;  AFV 68  005Total AF Fu  005Total A	2001 2001 2001 2001 2001 2001 2001 2001	AFV 32  FY2005  FY2005	2002 Total 43  brids and avg 16.5 n  FY04 11 515 5661 862 2142 GGE	AFV 32 32 32 32 32 32 32 32 32 32 32 32 32	Total 43  AFV Infra (\$) New CNG stat 0	tion already fu	Total 43  FY01 Inded 14232	32 FY02	Total 43 FY03	32 FY04
LL PETI	3. Fuel Econo	- AFV Refueling - SNL in MSA - Non-AFV acquisit - SNL in MSA - Non-AFV acquisit - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV - Total AFVs in CNG bi-fuel - E85 FFV - Total - Total - CNG bi-fuel - Require grad - Achieve inci - LDV turnove - Assume ave - Mew LDV - Qal/U, Dyl - More use of - Assume ove - Covered - Gaseline GGE 312,000	ng access (< 15 and Albuquerg quisition rates assumed to rates assumed to rassumed to rassumed to rassumed to subject to the rassumed to the r	ue is AFV Use ssumed sam med 75% since be LDV e five years 6 E28753/386 = 5 3 75% of time;  AFV 68  005Total AF Fu  005Total A	2001 2001 2001 2001 2001 2001 2001 2001	AFV 32  FY2005  FY2005	2002 Total 43  brids and avg 16.5 n  FY04 11 515 5661 862 2142 GGE	AFV 32 32 32 32 32 32 32 32 32 32 32 32 32	Total 43  AFV Infra (\$) New CNG stat 0	tion already fu	Total 43  FY01 Inded 14232	32 FY02	Total 43 FY03	32 FY04
LL PETI	3. Fuel Econo  4. Fleet Efficie  ROL FUEL RE	- AFV Refueling - SNL in MSA - Non-AFV acquisit - SNL in MSA - Non-AFV acquisit - LDV turnove - Mix of AFVs - Avg annual - Bi-fuel assu  LDV MDV - Total AFVs in CNG bi-fuel - E85 FFV - Total - Total - CNG bi-fuel - Require grad - Achieve inci - LDV turnove - Assume ave - Mew LDV - Qal/U, Dyl - More use of - Assume ove - Covered - Gaseline GGE 312,000	ng access (< 15 and Albuquerg quisition rates as a man distribution rates as suit on rate and rate an	ue is AFV Use ssumed sam med 75% since be LDV e five years 6 E28753/386 = 5 3 75% of time;  AFV 68  005Total AF Fu  005Total A	2001 2001 2001 2001 2001 2001 2001 2001	AFV 32  FY2005  FY2005	2002 Total 43  brids and avg 16.5 n  FY04 11 515 5661 862 2142 GGE	AFV 32 32 32 32 32 32 32 32 32 32 32 32 32	Total 43  AFV Infra (\$) New CNG stat 0	tion already fu	Total 43  FY01 Inded 14232	32 FY02	Total 43 FY03	32 FY04

# **SAVANNAH RIVER**

TAL FUEL	_ USE	1999		1999 NON-I			1999 EXEM	IPT		2005 GOAL	<del>_</del>				
(	GASOL	(GAL) 330,000	GGE 330,000	GAL	GGE	GAL 9174	GGE 9174		320,826	GGE REDUC	I				
	DIESEL TOTAL	333,000	381,951 711,951	293,000	336,071 336,071		- 9,174		45,880 366,706	73,341					
ET DATA	-Fleet data	1									_				
		1999 INVENTORY			2000 INVENTOR			2001 INVENTORY							
N	LDV MDV	1472	210 48	169 0	1472	151 96	114 0	1472	206 93	101 0					
	HDV AFV	87 284	2	0	87	3	0	87	3	<u>0</u> 					
	LDV	GASOL 1188	DIESEL 0	EXEMPT 33			Data Inventory #	's - from fleet		_	_				
	MDV HDV		87				acquisition	#'s - from VIDS		_	_				
ET FUEL	ECONOMY	(NEW ACC	UISITIONS) -	GSA Lease	ed Vehicle Da	ta									
	Vehicle Type Make	Model	Cylinders	Drive	1999 Acquisition	Fuel Econo s City FE	my Info Hwy FE	Combined F	E		_				
	mano	ouoi		50	0	0	0	0		_					
					0			0	0						
	Ford	Windstar			4	15	23	18	0.224927536						
	Jeep Ford	Cherokee F-250			9	16 13	20 18	18 15	0.2275 0.605769231						
	Dodge Dodge	Dakota Ram 1500			8	16 16	21 21	18 18	0.223214286 0.446428571						
	Chevy	Suburban			16	14	16	15	1.078571429						
						Baseline Av	verage FE		16.03	_					
						FY2002 FE FY2005 FE	Goal Goal		17.03 19.03	_					
		* Fuel econo	omy values from	DOE fleet fue	el economy guid	e			_						
TEGY											_				
1	1. BIODIES	- Assume di	esel use remain	s constant the	rough FY2005							_			
		- Assume to	tal conversion t	o B20 by FY20	005										
							E1/04	E\/00	FY03	FY04	FY05				
	FY 2005 Diesel (gal)	FY2005 B20 USE (ga	ai)	EQUIV FY2 FUEL DISP	005 L (GGE)		FY01	FY02	1 103		1.00				
	Diesel (gal) 333,000	B20 USE (ga 339,494		EQUIV FY2 FUEL DISP 68,982	:005 PL (GGE)		68,982	68,982	68,982	68,982	68,982	<u> </u>			
	Diesel (gal) 333,000	B20 USE (gr 339,494 QUISITIONS - AFV Refue - Savannah - Non-AFV a - AFV aquisi - All acquisi - LDV turno	- VIDS ling access (< 1 not in MSA cquisition rates ition rate assumed to rer assumed to	FUEL DISP 68,982 5 miles) = E85 assumed san ed to be 75%; to be LDV be five years	o (onsite); biodie ne as FY2001 for FY 2001 -200	95	68,982 PG (private)								
	Diesel (gal) 333,000	B20 USE (ga 339,494 QUISITIONS - AFV Refue - Savannah - Non-AFV a - AFV aqusi - LDV turno - Mix of AFV - Ava annua	- VIDS ling access (< 1 not in MSA cquisition rates ition rate assumed to rer assumed to	FUEL DISP 68.982 5 miles) = E85 assumed san ed to be 75% to be EDV be five years 9 purchased (1.330.000)/118	DL (GGE)  6 (onsite); biodie ne as FY2001 for FY 2001 -200  100% E85) and o	95	68,982 PG (private)								
	Diesel (gal) 333,000	B20 USE (ga 339,494 QUISITIONS - AFV Refue - Savannah - Non-AFV a - AFV aqusi - LDV turno - Mix of AFV - Ava annua	- VIDS ling access (< 1 not in MSA cauisition rates ssume titions assumed to reassumed to s based on 193 med 1. LDV fuel use = med 75% E85 us	FUEL DISP 68,982 5 miles) = E85 assumed san ed to be 75%; o be LDV be five years. 9 purchased (; (330,000)/118	5 (onsite); biodie ne as FY2001 for FY 2001 -200 100% E85) and (18 = 278 GGE	surrent use of 6	68.982 PG (private) 11.000 E85	68,982	68.982	68,982	68,982	AFV	2005	ACU	
	Diesel (gal) 333,000	B20 USE (g: 339,494  QUISITIONS - AFV Refue - Savannah - Non-AFV a - AFV aqusi - LDV turno - Mix of AFV - Avg annua - FFVs assu	- VIDS ling access (< 1 not in MSA cquisition rates tion rate assumed to rer assumed to s based on 199 I LDV fuel use = med 75% E85 us	FUEL DISP 68.982 5 miles) = E85 assumed san ed to be 75% to be EDV be five years 9 purchased (1.330.000)/118	L (GGE)  5 (onsite): biodie ne as FY2001 for FY 2001 -200  100% E85) and 0 18 = 278 GGE	95	68,982 PG (private)		68.982		68,982	AFV 155	2005 Total 206	AFV 155	
	Diesel (gal) 333,000	B20 USE (g: 339,494  QUISITIONS - AFV Refue - Savannah - Non-AFV a - AFV agusi - All acquisi - LDV turno - Mix of AFV - Avg annua - FFVs assu	- VIDS ling access (< 1 not in MSA cquisition rates tion rate assumed to ter assumed to ter assumed to to based on 1991 LDV fuel use = med 75% E85 us 2000 Total	FUEL DISP 68,982 5 miles) = E85 assumed san ed to be 75% o be LDV be five years. 9 purchased (* (330,000)/118	100% E85) and c 2001 Total 2006	eurrent use of 6  AFV 155	68,982 PG (private) 11,000 E85 2002 Total	68,982 AFV 155	68.982 2003 Total	68,982 AFV	68.982 2004 Total		Total		
	Diesel (gal) 333,000	B20 USE (g: 339,494  QUISITIONS - AFV Refue - Savannah - Non-AFV a - AFV agusi - AII acquisi - AII acquisi - Mix of AFV - Avg annua - FFVs assu  LDV MDV HDV  Total AFVs: E85 FFV	- VIDS ling access (< 1 not in MSA cquisition rates tition rate assum tions assumed to s based on 199 LIDV fuel use med 75% E85 us 2000 Total 151  in Service in FY: 775	FUEL DISP 68.982 5 miles) = E85 assumed san ed to be 75% to be LDV be five years 0 purchased (*) (330.000)/118 se	6 (onsite); biodie me as FY2001 for FY 2001-200 100% E85) and o 18 = 278 GGE 2001 Total 206  Total AF Fu in FY 2005; 161588	AFV 155	68,982 PG (private) 11,000 E85 2002 Total	AFV 155	2003 Total 206	68,982 AFV 155	2004 Total 2006	155 FY02	Total 206 FY03	155 FY04	
2	Diesel (qal) 333,000 2. AFV ACC	B20 USE (g: 339,494  QUISITIONS - AFV Refue - Savannah - Non-AFV a - AFV agusi - All acquisi - LDV turnor - Mix of AFV - Avg annua - FFVs assu  LDV MDV HDV Total AFVs E85 FFV Total	- VIDS ling access (< 1 not in MSA cquisition rates tion rate assumed to s based on 199 LDV fuel use = med 75% E85 us 2000 Total 151  n Service in FY; 775 775	FUEL DISP 68.982 5 miles) = E85 assumed san ed to be 75% to be LDV be five years 0 purchased (*) (330.000)/118 se	12 (GGE)  15 (onsite): biodie  16 as FY2001  17 for FY 2001 -200  18 = 278 GGE  2001  Total 206  Total AF Fu in FY 2005	AFV 155	68,982 PG (private) 11,000 E85 2002 Total	AFV 155	2003 Total 206	68,982 AFV 155	2004 Total 206	155	Total 206	155	
2	Diesel (qal) 333,000 2. AFV ACC	B20 USE (gi 339,494  QUISITIONS - AFV Refue - Savannah - Non-AFV aqusi - All acquisi - LDV turno - Mix of AFV - Avg annua - FFVs assu  LDV - MDV - HDV - Total AFVs - E85 FFV - Total	- VIDS ling access (< 1 not in MSA cquisition rate assumed to s based on 1991 LIDV fuel use = med 75% E85 us 2000 Total 151 In Service in FY: 775 775 388eS	FUEL DISP 68.982 5 miles) = E85 assumed san ed to be 75% to be LDV be five years 9 purchased (* .(330,000)/118 se AFV 114	6 (onsite); biodie me as FY2001 for FY 2001-200 100% E85) and o 18 = 278 GGE 2001 Total 206  Total AF Fu in FY 2005; 161588	AFV 155 el Use GGE)	68,982 PG (private) 11,000 E85 2002 Total	AFV 155	2003 Total 206	68,982 AFV 155	2004 Total 2006	155 FY02	Total 206 FY03	155 FY04	
2	Diesel (qal) 333,000 2. AFV ACC	B20 USE (gi 339,494  QUISITIONS - AFV Refue - Savannah - Non-AFV aqusi - All acquisi - LDV turno - Mix of AFV - Avg annua - FFVs assu  LDV - MDV - HDV - Total AFVs - E85 FFV - Total	- VIDS ling access (< 1 not in MSA cquisition rates tion rate assumed to s based on 1991 LIDV fuel use = med 75% E85 us 2000 Total 151  In Service in FY: 775 775 ases adually increasi	FUEL DISP 68.982  5 miles) = E85 assumed san ed to be 75% to be LDV be five years. 9 purchased (* (330.000)/118 e  AFV 114  2005	E (GGE)  (Gonsite): biodie  me as FY2001  for FY 2001 -200  100% E85) and of  8 = 278 GGE  2001  Total 206  Total AF Fu in FY 2005 / 161588  161588	AFV 155 el Use GGE)	68,982 PG (private) 11,000 E85 2002 Total	AFV 155	2003 Total 206	68,982 AFV 155	2004 Total 2006	155 FY02	Total 206 FY03	155 FY04	
2	Diesel (qal) 333,000 2. AFV ACC	B20 USE (gi 339,494  QUISITIONS - AFV Refue - Savannah - Non-AFV aqusi - All acquisi - LDV turno - Mix of AFV - Avg annua - FFVs assu  LDV - MDV - HDV - Total AFVs - E85 FFV - Total	- VIDS ling access (< 1 not in MSA cquisition rates stion rate assum tions assumed to. se assumed to. se based on 199* LLDV fuel use = med 75% E85 us 2000 Total 151  In Service in FY; 775 775 775 385eS adually increasi  - FY01 = 0.5; - FY02 = 1.0.	FUEL DISP 68.982  5 miles) = E85  assumed san ed to be 75% to be LDV be five years 9 purchased (* (330.000)/118 se  AFV 114  2005	100 (onsite): biodis 100 (onsi	AFV 155 el Use GGE)	68,982 PG (private) 11,000 E85 2002 Total	AFV 155	2003 Total 206	68,982 AFV 155	2004 Total 2006	155 FY02	Total 206 FY03	155 FY04	
2	Diesel (qal) 333,000 2. AFV ACC	B20 USE (gi 339,494  QUISITIONS - AFV Refue - Savannah - Non-AFV aqusi - All acquisi - LDV turno - Mix of AFV - Avg annua - FFVs assu  LDV - MDV - HDV - Total AFVs - E85 FFV - Total	- VIDS ling access (< 1 not in MSA cquisition rates sumed itions assumed to ver assumed to s based on 1999 ILDV fuel use = med 75% E85 us 2000 Total 151  In Service in FY: 775 775 ases adually increasi - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY03 = 2.0 - FY03 = 2.5	FUEL DISP 68.982  5 miles) = E85  assumed san ed to be 75% to be LDV be five years 10 purchased (*) (330.000)/118  AFV 114  2005  AFV 114  2005	IL (GGE)  5 (onsite): biodic me as FY2001 for FY 2001-200  100% E85) and of 18 = 278 GGE  2001 Total 206  Total AF Fu in FY 2005 161588 161588	AFV 155 el Use GGE)	68,982 PG (private) 11,000 E85 2002 Total	AFV 155	2003 Total 206	68,982 AFV 155	2004 Total 2006	155 FY02	Total 206 FY03	155 FY04	
2	Diesel (qal) 333,000 2. AFV ACC	B20 USE (g: 339,494  QUISITIONS - AFV Refue - Savannah - Non-AFV a - AFV agusi - All acquisi - All acquisi - Mix of AFV - Avq annua - FFVs assu  LDV MDV HDV Total AFVs: E85 FFV Total  normy Incre Require gr	- VIDS ling access (< 1 not in MSA cquisition rates tion rate assume tions assumed to se assumed to	FUEL DISP 68.982  5 miles) = E85 assumed san ed to be 75% o be LDV be five years 10 purchased (*) (330.000)/118 se  AFV 114  2005	L (GGE)  6 (onsite); biodie me as FY2001 for FY 2001-200  100% E85) and o 18 = 278 GGE  2001 Total 206  Total AF Fu in FY 2005; 161588 161588 161588	AFV 155 el Use GGE)	68,982 PG (private) 11,000 E85 2002 Total 206	AFV 155	2003 Total 206	68,982 AFV 155	2004 Total 2006	155 FY02	Total 206 FY03	155 FY04	
2	Diesel (qal) 333,000 2. AFV ACC	B20 USE (g: 339,494  QUISITIONS - AFV Refue - Savannah - Non-AFV a - AFV agusi - AII acquisi - AII acquisi - Mix of AFV - Avq annua - FFVs assu  LDV MDV HDV  Total AFVs: E85 FFV Total  nomy Incre: - Require gr	- VIDS ling access (< 1 not in MSA cquisition rates sumed to sasumed to rerassumed to rerassumed to sasumed to sasumed 1 150	FUEL DISP 68.982  5 miles) = E85 assumed san ed to be 75% to be LDV be five years 9 purchased (*) (330.000)/118 se  AFV 114  2005  mg FE consist mpg increase	EL (GGE)  6 (onsite); biodie me as FY2001 for FY 2001-200  100% E85) and of 100% E85) and o	AFV 155 el Use GGE)  nd FY05 goals	68,982 PG (private) 11,000 E85 2002 Total 206	AFV 155  AFV Refueling In None neede	2003 Total 206	68,982 AFV 155	2004 Total 2006	155 FY02	Total 206 FY03	155 FY04	
2	Diesel (qal) 333,000 2. AFV ACC	B20 USE (g: 339,494  QUISITIONS - AFV Refue - Savannah - Non-AFV a - AFV agusi - AII acquisi - AII acquisi - Mix of AFV - Avq annua - FFVs assu  LDV MDV HDV  Total AFVs: E85 FFV Total  nomy Incre: - Require gr	- VIDS ling access (< 1 not in MSA cquisition rates sumed to sasumed to rerassumed to rerassumed to sasumed to sasumed 1 150	FUEL DISP 68.982  5 miles) = E85 smiles) = E	Consite); biodie  The second of the second o	AFV 155 el Use GGE) and FY05 goals e types, use of	68,982 PG (private) 11,000 E85 2002 Total 206 hybrids yr and avg 16.0	AFV 155 AFV Refueling In None neede	2003 Total 206	68,982 AFV 155	2004 Total 2006	155 FY02	Total 206 FY03	155 FY04	
2	Diesel (qal) 333,000 2. AFV ACC	B20 USE (g: 339,494  QUISITIONS - AFV Refue - Savannah - Non-AFV agusi - All acquisis - LDV turno - Mix of AFV - Avg annua - FFVs assu  LDV MDV - HDV - Total AFVs - E85 FFV - Total - Require gr - Require gr - Achieve in - LDV turno - Assume av	- VIDS ling access (< 1 not in MSA cquisition rates sumed to sasumed to rerassumed to rerassumed to sasumed to sasumed 1 150	FUEL DISP 68.982  5 miles) = E85 assumed san ed to be 75%. to be LDV be five years. purchased (1 (330.000)/118  AFV 114  2005  AFV 114  2005  mg FE consist mpg increase mpg i	E (GGE)  5 (onsite); biodic me as FY2001 for FY 2001 -200  100% E85) and o 18 = 278 GGE  2001 Total 206  Total AF Fu in FY 2005 161588 161588  161588  Lent with FY02 a	AFV 155 el Use GGE) nd FY05 goals e types, use of sed on 278 galv FY03	68,962 PG (private) 11,000 E85 2002 Total 206 hybrids yr and avg 16.0 FY04 51	AFV 155  AFY Refueling In None needer	2003 Total 206	68,982 AFV 155	2004 Total 2006	155 FY02	Total 206 FY03	155 FY04	
2	Diesel (qal) 333,000 2. AFV ACC	B20 USE (g: 339,494  QUISITIONS - AFV Refue - Savannah - Non-AFV a - AFV agusi - All acquisi - All acquisi - LDV turno: - Mix of AFV - Avg annua - FFVs assu  LDV MDV HDV  Total AFVs - E85 FFV Total  nomy Incre: - Require gr	- VIDS ling access (< 1 not in MSA cquisition rates sumed to set assumed to set a	FUEL DISP 68.982  5 miles) = E85 assumed san assumed san ed to be 75% to be LDV be five years 114  2005  AFV 114  2005  AFV 116  AFV 117  AFV 119  AFV 119  AFV 119  AFV 119  AFV 119  AFV 114  AFV 115  AFV 117  AFV 117  AFV 118  AFV 119	L (GGE)  5 (onsite); biodic me as FY2001 for FY 2001-200  100% E85) and of 18 = 278 GGE  2001 Total 206  Total AF Fu in FY 2005 161588 161588 tent with FY002 a	AFV 155 el Use GGE)  et types, use of sed on 278 gal/r  FY03 51 247	68,982  PG (private)  11,000 E85  2002 Total 206  hybrids yr and avq 16.0  FY04 51 240	AFV 155  AFV Refueling in None neede	2003 Total 206	68,982 AFV 155	2004 Total 2006	155 FY02	Total 206 FY03	155 FY04	
2	Diesel (qal) 333,000 2. AFV ACC	B20 USE (gi 339,494  QUISITIONS - AFV Refue - Savannah - Non-AFV a - AFV agusi - All acquisi - All acquisi - Mix of AFV - Avg annua - FFVs assu  LDV MDV HDV  Total AFVs: E85 FFV Total - Require gr - Require gr	- VIDS  ling access (< 1 not in MSA cquisition rates tion rate assumed tions assumed to ver assumed to s based on 192 1 LDV fuel use = med 75% E85 us 2000 Total 151  In Service in FY: 775 775 775 ases adually increasi - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY03 = 2.0 - FY05 = 3.0  creased FE thro cr	FUEL DISP 68.982  5 miles) = E85 assumed san ed to be 75% to be LDV be five years 9 purchased (*) (330.000)/118 ass  AFV 114  2005  AFV 114  2005  mg FE consist mpg increase	Election of vehicles 4456 mi/yr base 1522 13341 837	AFV 155 el Use GGE)  at types, use of sed on 278 galv  F103 51 247 12601	68,982  PG (private)  11,000 E85  2002 Total 206  hybrids yr and avg 16.0 FY04 51 240 12261 12917	AFV 155  AFV Refueling In None neede  3 mpg FY05 51 234 11939 2239	2003 Total 206	68,982 AFV 155	2004 Total 2006	155 FY02	Total 206 FY03	155 FY04	
2	Diesel (qal) 333,000 2. AFV ACC	B20 USE (g: 339,494  QUISITIONS - AFV Refue - Savannah - Non-AFV a - AFV agusi - All acquisi - All acquisi - LDV turno: - Mix of AFV - Avg annua - FFVs assu  LDV MDV - HDV  Total AFVs - E85 FFV Total - Require gr - Require gr - Achieve in - LDV turno: - Assume av  New LDV gal/LDV New gal use Gal saved if Gal Saved if	- VIDS ling access (< 1 not in MSA cquisition rates sumed to sasumed to rerassumed to sasumed to rerassumed to sasumed 1 151  In Service in FY: 775 775 775 775 3888  - FY01 = 0.5 - FY02 = 1.0 - FY03 = 2.0 - FY03 = 2.0 - FY04 = 2.5 - FY05 = 3.0  creased FE thro creased F	FUEL DISP 68,982  5 miles) = E85 smiles) = E85 smiles) = E85 purchased (1,330,000)/118 e  AFV 114 2005  AFV 114 2005  mg FE consists mpg increase mpg increase mpg increase mpg increase mpg increase mpg increase in 1999 travel FV1 269 13744	L (GGE)  5 (onsite); biodic me as FY2001 for FY 2001 -200 100% E85) and o 8 = 278 GGE  2001 Total 206  Total AF Fu in FY 2005 161588 161588  tent with FY02 a  lection of vehicl s 4456 mi/yr bar FY02 51 262 13344	AFV 155 el Use GGE)  e types, use of sed on 278 gal/ FY03 51 247 12601 1577 2848	68,982  PG (private)  11,000 E85  2002 Total 206  hybrids yr and avg 16.0  FY04 51 240 12261 1917 4765	AFV 155  AFV Refueling In None neede	2003 Total 206	68,982 AFV 155	2004 Total 2006	155 FY02	Total 206 FY03	155 FY04	
2	Diesel (gal) 333,000  2. AFV ACC  3. Fuel Eco	B20 USE (g: 339,494  QUISITIONS - AFV Refue - Savannah - Non-AFV a - AFV agusi - AII acquisi - LDV turnor - Mix of AFV - Avg annua - FFVs assu  LDV MDV - HDV - Total AFVs - E85 FFV Total - Require gr - Achieve in - LDV turnor - Assume av  New LDV gal/LDV New gal use Gal saved if Gal Saved if Gal Saved if	- VIDS ling access (< 1 not in MSA cquisition rates stion rate assumed to shad so line rates from the rate assumed to shad so line rates assumed to rate rates assumed to rate rates assumed to line rates assumed	FUEL DISP 68.982  5 miles) = E85 assumed san ed to be 75% to be LDV be five years 9 purchased (*) (330.000)/118 ass  AFV 114  2005  AFV 114  2005  mg FE consist mpg increase	Election of vehicles 4456 mi/yr base 1522 13341 837	AFV 155 el Use GGE)  at types, use of sed on 278 galv  F103 51 247 12601	68,982  PG (private)  11,000 E85  2002 Total 206  hybrids yr and avg 16.0 FY04 51 240 12261 12917	AFV 155  AFV Refueling In None neede  3 mpg FY05 51 234 11939 2239	2003 Total 206	68,982 AFV 155	2004 Total 2006	155 FY02	Total 206 FY03	155 FY04	
2	Diesel (gal) 333,000  2. AFV ACC  3. Fuel Eco	B20 USE (g: 339,494  QUISITIONS - AFV Refue - Savannah - Non-AFV a - AFV agusi - All acquisi - All acquisi - Mix of AFV - Avg annua - FFVs assu  LDV MDV HDV  Total AFVs: E85 FFV Total  nomy Incre Require gr  - Achieve in - LDV turno: - Assume av  New LDV qal/LDV New gal use Gal saved if Gal Saved C Total gal sa: iciency Impi	- VIDS ling access (< 1 not in MSA cquisition rates sumed to the control of the c	FUEL DISP 68.982  5 miles) = E85 assumed san ed to be 75% to be LDV be five years 9 purchased (*) (330.000)/118 ass  AFV 114  2005  AFV 114  2005  mg FE consist mpg increase	Election of vehicles 4456 mi/yr base 1522 13341 837	AFV 155 el Use GGE)  e types, use of sed on 278 gal/ FY03 51 247 12601 1577 2848	68,982  PG (private)  11,000 E85  2002 Total 206  hybrids yr and avg 16.0  FY04 51 240 12261 1917 4765	AFV 155  AFV Refueling In None neede  3 mpg FY05 51 234 11939 2239	2003 Total 206	68,982 AFV 155	2004 Total 2006	155 FY02	Total 206 FY03	155 FY04	
2	Diesel (gal) 333,000  2. AFV ACC  3. Fuel Eco	B20 USE (gi 339,494  QUISITIONS - AFV Refue - Savannah - Non-AFV a - AFV agusi - AII acquisi - AII acquisi - AII acquisi - Mix of AFV - Avq annua - FFVs assu  LDV MDV - HDV  Total AFVs - E85 FFV Total - Require gr - Require gr - Achieve in - LDV turno - Assume av  New LDV gal/LDV New gal use Gal saved if Gal Saved C  Total gal sa  Giency Impi - Reducad v - Increased	- VIDS  ling access (< 1 not in MSA cquisition rates sumed to the same of the	FUEL DISP 68.982  5 miles) = E85 assumed san ed to be 75% to be LDV be five years 9 purchased (*) (330.000)/118 ass  AFV 114  2005  AFV 114  2005  mg FE consist mpg increase	Election of vehicles 4456 mi/yr base 1522 13341 837	AFV 155 el Use GGE)  e types, use of sed on 278 gal/ FY03 51 247 12601 1577 2848	68,982  PG (private)  11,000 E85  2002 Total 206  hybrids yr and avg 16.0  FY04 51 240 12261 1917 4765	AFV 155  AFV Refueling In None neede  3 mpg FY05 51 234 11939 2239	2003 Total 206	68,982 AFV 155	2004 Total 2006	155 FY02	Total 206 FY03	155 FY04	
2	Diesel (gal) 333,000  2. AFV ACC  3. Fuel Eco	B20 USE (g: 339,494  339,494  - AFV Refue - Savannah - Non-AFV a - AFV agusi - All acquisi - All acquisi - LDV turno: - Mix of AFV - Avq annua - FFVs assu  LDV MDV - HDV Total AFVs - E85 FFV Total - Require gr - Achieve in - LDV turno: - Assume av  New LDV gal/LDV New gal use Gal saved ir Gal Saved C Total gal save - Increased - Reduced v - Increased - Reduced v - Increased - More use o	- VIDS ling access (< 1 not in MSA cquisition rates assumed tions assumed to season on 198 LIDV fuel use = med 75% E85 us 2000 Total 151  In Service in FY: 775 775 asses adually increasi adually increasi - FY01 = 0.5: - FY02 = 1.0: - FY03 = 2.0: - FY03 = 2.0: - FY04 = 2.5 r - FY05 = 3.0: - FY05 = 3.0: - FY05 = 3.0: - FY06 = 5.0: - FY06 = 5.0: - FY07 = 5.5: - FY08 = 5.0: - FY09	FUEL DISP 68,982  5 miles) = E85 assumed san ed to be 75% to be LDV be five years. Depurchased (1,330,000)/118  AFV 114  2005  AFV 114  2005  mpg increase mpg increase mpg increase mpg increase mpg increase in 1990 travel  FY01 51 269 13744 434 434	Election of vehicles 4456 mi/yr base 1522 13341 837	AFV 155 el Use GGE) etypes, use of sed on 278 gal/n FY03 51 247 12601 1577 2848 7004	68,982  PG (private)  11,000 E85  2002 Total 206  hybrids yr and avg 16.0  FY04 51 240 12261 1917 4765	AFV 155  AFV Refueling In None neede  3 mpg FY05 51 234 11939 2239	2003 Total 206	68,982 AFV 155	2004 Total 2006	155 FY02	Total 206 FY03	155 FY04	
2	Diesel (gal) 333,000  2. AFV ACC  3. Fuel Eco	B20 USE (g: 339,494  339,494  - AFV Refue - Savannah - Non-AFV a - AFV agusi - All acquisi - All acquisi - LDV turno: - Mix of AFV - Avq annua - FFVs assu  LDV MDV - HDV Total AFVs - E85 FFV Total - Require gr - Achieve in - LDV turno: - Assume av  New LDV gal/LDV New gal use Gal saved ir Gal Saved C Total gal save - Increased - Reduced v - Increased - Reduced v - Increased - More use o	- VIDS ling access (< 1 not in MSA cquisition rates tion rate assumed it ions assumed it ions assumed it is based on 199' ILDV fuel use = med 75% E85 us 2000 Total 151  IS1 IS1 IS1 IS1 IS1 IS1 IS1 IS1 IS1 I	FUEL DISP 68,982  5 miles) = E85 assumed san ed to be 75% to be LDV be five years. Depurchased (1,330,000)/118  AFV 114  2005  AFV 114  2005  mpg increase mpg increase mpg increase mpg increase mpg increase in 1990 travel  FY01 51 269 13744 434 434	El (GGE)  (In the content of the con	AFV 155 el Use GGE) etypes, use of sed on 278 gal/n FY03 51 247 12601 1577 2848 7004	68,982  PG (private)  11,000 E85  2002 Total 206  hybrids yr and avg 16.0  FY04 51 240 12261 1917 4765	AFV 155  AFV Refueling In None neede  3 mpg FY05 51 234 11939 2239	2003 Total 206	68,982 AFV 155	2004 Total 2006	155 FY02	Total 206 FY03	155 FY04	

 STRATEGY	FUEL SAVED
OPTION	(GGE)
 1	68,982
 2	161588
3	7004
4	7,334
 TOTAL	244,908